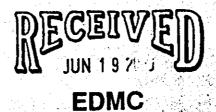
Waste Tank Summary Report for Month Ending March 31, 2000



Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

CH2MHILL

Hanford Group, Inc.

Richland, Washington

Contractor for the U.S. Department of Energy
Office of River Protection under Contract DE-AC06-99RL14047

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B. M. Hanlon CH2M HILL Hanford Group, Inc.

Date Published May 2000

Prepared for the U.S. Department of Energy Assistant Secretary for Environmental Management

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WASTE TANK SUMMARY REPORT FOR MONTH ENDING MARCH 31,

2000

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APPROVALS

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Process Engineering

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WASTE TANK SUMMARY REPORT

B. M. Hanlon

ABSTRACT

This report is the official inventory for radioactive waste stored in underground tanks in the 200 Areas at the Hanford Site. Data that depict the status of stored radioactive waste and tank vessel integrity are contained within the report. This report provides data on each of the existing 177 large underground waste storage tanks and 63 smaller miscellaneous underground storage tanks and special surveillance facilities, and supplemental information regarding tank surveillance anomalies and ongoing investigations. This report is intended to meet the requirement of U. S. Department of Energy-Richland Operations Office Order 435.1 (DOE-RL, July 1999, Radioactive Waste Management, U. S. Department of Energy-Richland Operations Office, Richland, Washington) requiring the reporting of waste inventories and space utilization for Hanford Tank Farm tanks.

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METRIC CONVERSION CHART					
1 inch	=	2.54 centimeters			
1 foot		30.48 centimeters			
l gallon	-	3.80 liters			
1 ton	=	0.90 metric tons			

$$^{\circ}F = \left(\frac{9}{5} \, ^{\circ}C\right) + 32$$

1 Btu/h = 2.930711 E-01 watts (International Table)

WASTE TANK SUMMARY REPORT FOR MONTH ENDING MARCH 31, 2000

Note: Changes from the previous month are in bold print.

I. WASTE TANK STATUS

Category	Quantity	Date of Last Change
Double-Shell Tanks ^b	28 double-shell	10/86
Single-Shell Tanks	149 single-shell	1966
Assumed Leaker Tanks	67 single-shell	07/93
Sound Tanks	28 double-shell 82 single-shell	1986 07/93
Interim Stabilized Tanks	121 single-shell	01/00
Not Interim Stabilized®	28 single-shell	01/00
Intrusion Prevention Completed	108 single-shell	09/96
Controlled, Clean, and Stable ^f	36 single-shell	09/96
Watch List Tanks ^d	21 single-shell 6 double-shell	12/99° 06/93
Total	27 tanks	

^{*}Of the 121 tanks classified as Interim Stabilized, 64 are listed as Assumed Loakers. (See Table I-1)

II. WASTE TANK INVESTIGATIONS

This section includes all single- or double-shell tanks or catch tanks which are showing surface level or interstitial liquid level (ILL) decreases, or drywell radiation level increases in excess of established criteria.

A. Assumed Leakers or Assumed Re-leakers: (See Appendix C for definition of "Re-leaker")

This section includes all single- or double-shell tanks or catch tanks for which an off-normal or unusual occurrence report has been issued, or for which a waste tank investigation is in progress, for assumed leaks or re-leaks.

^b Six double-shell tanks are currently included on the Hydrogen Watch List and are thus prohibited from receiving waste in accordance with "Safety Measures for Waste Tanks at Hanford Nuclear Reservation," Section 3137 of the National Defense Authorization Act for Fiscal Year 1991, November 5, 1990, Public Law 101-510.

^{*}Three of these tanks are Assumed Leakers (BY-105, BY-106, SX-104). (See Table H-1)

⁴ See Section A tables for more information on Watch List Tanks.

Dates for the Watch List tanks are "officially added to or removed from the Watch List" dates. Eighteen tanks were removed from the Organics Watch List in December 1998; two tanks still remain on this watch list. In December 1999, tank C-106 was officially removed from the High Heat Load Watch List.

^f The TY tank farm was officially declared Controlled, Clean, and Stable (CCS) in March 1996. The TX tank farm and BX tank farms were declared CCS in September 1996.

Tanks/catch tanks will remain on this list until either a) completion of Interim Stabilization, b) the updated occurrence report indicates that the tank/catch tank is not an assumed leaker, or c) the investigation is completed.

There are no formal leak investigations in progress. There are no tanks for which an off-normal or unusual occurrence report has been issued for assumed leaks or re-leaks.

B. Tanks with increases indicating possible intrusions:

This section includes all single-shell tanks and related receiver tanks for which the surveillance data show that the surface level or ILL has met or exceeded the increase criteria, or are still being investigated.

Candidate Intrusion List: Increase criteria in the following tanks indicate possible intrusions.

Tank 241-B-202 Tank 241-BX-101 Tank 241-BX-103 Tank 241-BY-103

The surveillance data was last reviewed on the tanks listed as having probable liquid intrusions: Memo 74B20-99-045, dated November 22, 1999.

Catch Tank 241-AX-152: The liquid level in this catch tank was steady around 66.75 inches from the startup of Project W-030, Tank Farm Ventilation System," in March 1998 until late August 1998. The level then began to decrease. The October 1998 reading of 65 inches is 1.75 inches below the summer average. This is an active catch tank, routinely pumped, and deviations from baseline are not applicable per OSD-00031. The decrease represents a significant change in trend and it is apparent that tank conditions changed around the end of August 1998.

Resolution Status: Discrepancy Report #98-853 was issued on November 4, 1998. One possible cause under investigation is a change in flow path, causing an increase in evaporation. The tank was pumped down to 2.25 inches on November 13, 1998. Since that time the level has decreased to 0.00 inches. The Discrepancy Report will remain open and catch tank AX-152 will remain on the alert list until an engineering investigation is complete.

The discrepancy remained unresolved, and there was a renewed interest in this tank because of its importance for deactivation of the 702A ventilation system to prepare it for Decommissioning and Deactivation and for collection of drainage from AX-155. In the absence of an agreement on a leak test, management requested a leak assessment. The leak assessment team will meet in April 2000.

Also, Work Package ES-99-00133 to perform vapor sampling to support resolution of a flammable USQ for the facility has been prepared.

III. SURVEILLANCE AND WASTE TANK STATUS HIGHLIGHTS

Single-Shell Tanks Saltwell Jet Pumping (See Table E-6 footnotes for further information)

Tank 241-S-102 - Pumping continued until November 17, 1999, when pump problems forced a shutdown. The pump was replaced and pumping resumed on February 19, 2000. Problems with the new pump forced a shutdown on March 23, 2000. In March 2000, a total of 7.5 Kgallons was pumped; a total of 53.6 Kgallons has been pumped from this tank since pumping started in March 1999.

<u>Tank 241-S-103</u> - Pumping was discontinued on January 5, 2000, to allow the waste levels to stabilize, so waste porosities and final waste volumes can then be calculated to determine whether this tank meets Interim Stabilization criteria. The stabilization evaluation was completed on March 24, 2000, but submittal to ORP and Ecology for final approval is pending.

<u>Tank 241-S-106</u> - Pumping was discontinued on January 3, 2000, to allow the waste levels to stabilize, so waste porosities and final waste volumes can then be calculated to determine whether this tank meets Interim Stabilization criteria.

<u>Tank 241-SX-104</u> - Pumping was interrupted on July 27, 1999, by a leaking saltwell pump. This tank is being evaluated for stabilization based on equipment failure; it is anticipated that interim stabilization will be complete in April 2000. A total of 231.3 Kgallons has been pumped from this tank since pumping started in the late 1980s.

<u>Tank 241-SX-106-Pumping</u> was discontinued on January 5, 2000, to allow the waste levels to stabilize, so waste porosities and final waste volumes can then be calculated to determine whether this tank meets Interim Stabilization criteria.

Tank 241-U-102 - Pumping commenced January 20, 2000. In March 2000, a total of 9.2 Kgallons was pumped; a total of 25.1 Kgallons has been pumped from this tank since start of pumping in January, 2000.

Tank 241-U-103 - Pumping commenced September 26, 1999. In March 2000, a total of 7.7 Kgallons was pumped; a total of 93.7 Kgallons has been pumped from this tank since start of pumping in September 1999.

Tank 241-U-105 - Pumping commenced December 10, 1999. In March 2000, a total of 2.2 Kgallons was pumped; a total of 66.2 Kgallons has been pumped from this tank since start of pumping in December 1999.

<u>Tank 241-U-109</u> - Pumping commenced March 11, 2000, three months ahead of schedule. In March 2000, a total of 12.8 Kgallons was pumped.

Double-Shell Tank 241-SY-101 Waste Level Increase

Tank 241-SY-101 exhibited gas release events due to generation and retention of flammable gas. A mixer pump was installed in the tank in July 1993, which circulates liquid wastes. This prevents gas bubbles from building up at the bottom, and results in venting of small steady gas releases. Since early 1997, the surface level has been rising in spite of regular mixer pump operations.

Resolution Status: On February 11, 1998, the PRC recommended that the DOE-RL declare an Unreviewed Safety Question (USQ) over the continued level growth observed in this tank. The contractor has established a multi-disciplinary team to solve the level growth issues in SY-101. The prime near-term focus is to transfer approximately 100,000 gallons out of SY-101. This objective was expanded to transfer approximately 500,000 gallons of waste from SY-101 so that sufficient water could be added to resolve the flammable gas issue.

Final calculated transfer and dilution volumes for level growth remediation, Memo 74B50-00-030, dated March 23, 2000:

Volumes in gallons, rounded to the nearest 500 gallons

	Date		"Original	In-Line		Bottom	Total
	Campaign	Waste	Waste*	Dilution	Top Back	Back	Back
Campaign #	Began	Transferred	Transferred	Water	Dilution	Dilution	Dilution
#1	Dec. 18, '99	89,500	89,500	84,000	26,000	36,000	62,000
#2	Jan. 27, '00	240,500	230,000	198,000	89,500	150,000	239,500
#3	Feb. 29, '00	286,000	205,500	102,500	36,500	187,000	223,500
Cumulative		616,000	525,000	384,500	152,000	373,000	525,000

Aggressive mixer pump operations were performed to most efficiently mix the dilution water in the tank waste. Once the tank waste is "well mixed," a controlled evaluation period will commence to observe the overall tank waste behavior without running the mixer pump. This controlled Mixer Pump Observation Period (MPOP) is scheduled to start in early April 2000.

3. RL-PHMC-TANKFARM-1999-0063, Occurrence Report, "An Unreviewed Safety Ouestion Was Discovered," Unusual Occurrence, Latest update: November 4, 1999.

The completion times identified in LCO 3.1.3, Transfer Leak Detection Systems, action statement A.2.2.1, "Verify there is no detectable leakage at the leak detection location using an alternate monitoring device," could allow operation outside the analyzed Authorization Basis. This action statement allows the use of alternate leak detection devices with a surveillance frequency not supported by the Authorization Basis.

Standing Order #TWO-99-34 was issued to prohibit implementation of this action statement until this issue is resolved.

The Plant Review Committee directed performance of an Unreviewed Safety Question Determination.

On October 11, 1999, this event was upgraded to "Unusual Occurrence."

November 4, 1999: The following information was transferred from UOR -1999-0055 to this report:

On August 3, 1999, the Plant Review Committee (PRC) concluded that a Potential Inadequacy in Authorization Basis (PIAB) exists with respect to the inadequacy of the applicability statement of Limiting Conditions to Operation (LCOs) 3.3.3 and 3.3.3. Process area applicability of transfer system covers that are "PHYSICALLY CONNECTED to an ACTIVE WASTE transfer pump not under administrative lock" may be inadequate for 242-A Evaporator emergency dump configurations.

On February 1, 2000, CHG received a letter declaring USQ TF-99-0610 closed, and authorized revisions to the TWRS Final Safety Analysis Report, HNF-SD-WM-SAR-067 and TWRS Technical Safety Requirements, HNF-SD-WM-TSR-006.

On March 13, 2000, ECN-650157 was approved and the recommended changes were effective.

4. RL-LMHC-TANKFARM-1999-0023, Occurrence Report, "Additional Information Regarding Crust Growth in 241-SY-101," Off-Normal Occurrence, Notification; April 9, 1999, Latest Update; December 12, 1999.

On December 18, 1999, approximately 90,000 gallons of nuclear waste was transferred from tank SY-101 to SY-102 in the first of three planned transfers.

In conjunction with the transfers, water is added to the waste to reduce the concentration of gas generation and gasretaining chemicals to reduce gas buildup in SY-101 and associated receiving tanks.

The second of the three waste transfers was completed on January 27, 2000.

The third and final phase of transfers was initiated on February 29, and completed March 2, 2000.

In April 2000, a Mixer Pump Observation Period (MPOP) will begin. The MPOP suspends mixer pump runs (other than an occasional pump bump directed by the Technical Review Group) for a period of approximately 90 days.

This report is being extended pending completion and evaluation of tank activities during the MPOP and resolution of the USQ issues.

It is anticipated that an Update or Final report will be submitted no later than October 1, 2000.

5. RP-LMHC-TANKFARM-1999-0010. Occurrence Report."311-ER Vapor Sample Indicated High Lower Flammability Limit Reading." Unusual Occurrence. Final Update: March 24, 2000.

On November 1, 1999, 241-ER-311 Catch Tank was vapor sampled during planned Characterization Operations sampling. The results of the sampling with a Combustible Gas Meter (CGM) revealed a reading of >25% Lower

Flammability Limit (LFL) reading. A second reading was obtained using a different instrument; again the reading was >25% LFL. Both readings were off scale (HIGH). Samples were captured and sent to the lab for analysis.

All work was terminated on or near tank ER-311. Restricted access to the fenced area that surrounds this tank was initiated by controlling the entrance key and posting the gate, pending further investigation and subsequent resolution.

The Plant Review Committee met on November 9, 1999, to review sample data and status of field activities. A portable exhauster has been installed to remove the argon used to dilute/displace flammable concentrations of hydrogen.

Operational restrictions remain on ER-311 and adjacent facilities (ER-311 pump pit, ER-151 and ER-152 diversion boxes).

USQ TF-99-0275, Rev 1, "Occurrence Report, ER-311 Catch Tank in 200 East Area," was completed on March 31, 2000,

A letter was sent to ORP requesting removal of restrictions relative to this Catch Tank.

6. RP-LMHC-TANKFARM-1999-0019, Occurrence Report, "Leak Detector in the 241-SY-02A Pit Activated During Saltwell Transfer." Off Normal Occurrence, Final Update: February 16, 2000 (some completion activities below were added to the Occurrence Report after Final Update was issued)

On December 1, 1999, while saltwell transfers from S-103, S-106 and SX-106 were in progress, a leak detector in the SY-02A pit was activated. All saltwell transfers were automatically shut down upon leak detection activation. A subsequent flush from S-103 reactivated the leak detector, confirming a potential leak in the pit.

The leak detection alarm at SY-102 pump was classified as an off-normal occurrence.

All active transfers to the SY-02A pit were immediately stopped. Administrative locks were applied to the transfer pumps per LCO. Leak in pit was confirmed.

Cause: Operator did not comply with the work package instructions when disconnecting and installing the valve pit jumpers.

Corrective Actions: A lessons learned was issued March 21, 2000, to re-emphasize the importance of proper conduction of operations, specifically the need for clear and complete communication in the filed.

The SY-02A Valve Pit was reconfigured to reflect proper jumper routing.

A work package was completed to correct misrouted jumpers. The work package included QC verification of routing per approved routing diagram/drawing.

7. RP-CHG-TANKFARM-2000-0002, Occurrence Report, "Release of Radioactive Material at 241-S-103 During Saltwell Pumping," Unusual Occurrence, Update: March 30, 2000

At approximately 0230 hours on January 6, 2000, while operating the S-103 saltwell, liquid was discovered leaking from an electrical junction box on the pump pit. The saltwell was immediately shut down, administrative lock applied and placed in short term shutdown. The saltwell operators evacuated the area and notified the West Tank Farm Shift Manager. The affected area was immediately isolated inside the tank farm. Health Physics Technicians (HPTs) were dispatched and began surveying personnel out of the tank farm. Precautionary roadblocks were set up to isolate the affected area surrounding the tank farm until the release could be investigated. HPTs surveyed the affected release area and determined it to be a High Radiation Area and the area was roped off. Contamination occurred on the personal clothing of three operators with only readings below reportable levels.

Further investigation by the Environmental Compliance Officer revealed that the two-to-five gallon spill contained Cesium-137 at a level which exceeded the CERCLA Reportable Quantity for this material. As a result, this event is being recategorized from an Off-Normal to an Unusual Occurrence.

Recovery actions were initiated to decontaminate the leak area by removing the contaminated soil and placing it in barrels staged at the facility.

Evaluations were initiated to estimate the release and determine the exact leak location.

Supporting Document #RPP-5825, Technical Evaluation of 3" SN-219 Failure and S/SX Tank Farm Saltwell Piping," provided an evaluation of the failure, conclusions regarding the piping in the S-complex, and recommendations.

8. RP-CHG-TANKFARM-2000-0016. Occurrence Report. "Loss of 241-SY-102 Primary Tank Leak Detection System (USO)." Unusual Occurrence, Latest Update: March 28, 2000

On February 16, 2000, the SY-102 annulus conductivity probe instrumentation indicated an alarm condition. The annulus continuous alarm monitor (CAM) had been previously taken out of service for maintenance. These conditions caused the Primary Tank Leak Detection System to be inoperable. Limiting Condition for Operation (LCO) states that one of the two primary tank leak detection systems shall be operable.

Immediate efforts were made to replace the annulus stack CAM to restore annulus ventilation. Attempts to reset the annulus conductivity probe were not successful.

Additional time is needed to develop and approve the Root Cause Analysis and Corrective Action Plan.

A Final Report Update will be submitted no later than May 31, 2000.

9. RP-CHG-TANKFARM-2000-0017, Occurrence Report, "Abnormal Radiation Detected at Pit 05C at Tank 241-U-105," Off-Normal Occurrence, Notification; February 25, 2000

Abnormal radiation levels were detected at Pit 05C at Tank U-105 during a normal routine survey. No alarming leak detectors were discovered.

On February 23, 2000, a video shoot was taken of the pits while water flushing was performed. This validated that there was a small leak off the pit jumper manifold in the U-A valve pit. This leak was contained within the U-A valve pit and the O5C sluice pit.

U-Farm saltwell transfers were shut down as a precautionary measure. After pumping was stopped and the lines flushed, dose rates on contact with the shielding were 45mr/hr.

Dosimeter information from employees in the vicinity during this time was evaluated; there were no abnormal exposures from the event. All 15 employees were radiation workers.

10. RP-CHG-TANKFARM-2000-0023. Occurrence Report. "Failure of 296-P-16 Exhauster for 241-C-105/106 Tanks." Unusual Occurrence. Notification: March 10, 2000.

On March 10, 2000, a Loss of Vacuum alarm was received by TMACS. An Operator and HPT responded to the alarm and discovered the P-16 Exhauster was shut down.

An attempt to restart the exhauster resulted in the exhauster running approximately five minutes and again shutting down.

The Washington State Department of Health was notified.

An investigation into causes of the shutdown and development of a Work Plan for troubleshooting commenced.

11. RP-CHG-TANKFARM-2000-0026, Occurrence Report, "AW-102/104 Annulus Continuous Air Monitor Radiation Hi Failure Alarm (USO)," Unusual Occurrence, Notification; March 23, 2000.

On March 22, 2000, a loss of power resulted in a Radiation Hi Failure alarm on the AW-102/104 Continuous Air Monitor (CAM) and the unplanned entry into LCO 3.2.6.

The LCO requires either the annulus conductivity probe system or the annulus CAMs to be operable. Loss of power to the CAMs during maintenance on the separate conductivity probe system resulted in the unplanned entry.

The LCO was exited upon completion of the annulus conductivity probe functional test.

The cross-site transfer in progress was shut down. It was attempted to restore power to the CAM. The power breaker was found tripped. Troubleshooting the loss of power commenced.

Troubleshooting the loss of power to the CAMs continue.

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APPENDIX A WASTE TANK SURVEILLANCE MONITORING TABLES

TABLE A-1. TEMPERATURE MONITORING IN WATCH LIST TANKS (Sheet 1 of 2) March 31, 2000

These tanks have been identified as Watch List Tanks in accordance with Public Law 101-510, Section 3137, "Safety Measures for Waste Tanks at Hanford Nuclear Reservation," (1990), because they "... may have a serious potential for release of high-level waste due to uncontrolled increases in temperature or presssure."

All Watch List tanks are reviewed for increasing temperature trends. Temperatures in these tanks are monitored by the Tank Monitor And Control System (TMACS), unless indicated otherwise.

Temperatures are taken in the waste unless in-waste thermocouples are out of service. Temperatures below are the highest temperatures recorded in these tanks during this month.

Temperatures in Degrees F.

		SINGLE-SHE	LL TANKS				
Ну	drogen (Fla	ammable Gas)	Organics				
Tank No.	Temp.	Officially Added to Watch List	Tank No.	Officially Adde			
A-101	147	1/91	C-102	82	5/94		
AX-101	128	1/91	C-103	112	1/91		
AX-103	107	1/91					
S-102	101	1/91					
S-111	89	1/91					
S-112	83	1/91					
SX-101	131	1/91					
SX-102	141	1/91					
SX-103	158	1/91]				
SX-104	139	1/91					
\$X-105	164	1/91					
SX-106	100	1/91					
SX-109 (1)	135	1/91	ļ				
T-110 (3)	67	1/91	!				
U-103	86	1/91	İ				
U-105	89	1/91					
U-107	78	12/93					
U-108	86	1/92					
U-10 9	84	1/91					
	OUBLE-SH	IELL TANKS					
AN-103	105	1/91	1				
AN-104	106	1/91		Single-Shell to			
AN-105	101	1/91	_6_	Double-Shall	tanka		
AW-101	98	6/93	27	Tanks on Wat	tch Lists		
SY-101	110	1/91					
SY-103	94 	1/91	19 tanks from				

All tanks were removed from the Ferrocyanide Watch List and 18 tanks from the Organics Watch List. Tank C-106 was removed from the High Heat Load Watch List on December 16, 1999. See Table A-3.

TABLE A-1. TEMPERATURE MONITORING IN WATCH LIST TANKS (sheet 2 of 2)

Notes:

Unreviewed Safety Question (USQ):

When a USQ is declared, special controls are required, and work in the tanks is limited. There are currently no USQs on single-shell tanks. There is a USQ on double-shell tank SY-101 for liquid level increase.

Hydrogen/Flammable Gas:

These tanks are suspected of having a significant potential for hydrogen/flammable gas generation, entrapment, and episodic release. The USQ associated with these tanks was closed in September 1998. Twenty-five tanks (19 SST and 6 DST) remain on the Hydrogen Watch List.

Organic Salts:

These tanks contain concentrations of organic salts ≥3 weight% of total organic carbon (TOC)(equivalent to 10 wt% sodium acetate). The USQ associated with these tanks was closed in October 1998, and 18 organic complexant tanks were removed from the Organic Watch List in December 1998. Two organic solvent tanks (C-102 and C-103) remain on the Organic Watch List.

High Heat:

These tanks contain heat generating strontium-rich sludge and require drainable liquid to be maintained in the tank to promote cooling. There are currently nine tanks on the High Heat Load List but no tanks on the High Heat Load Watch List.

Active ventilation:

There are 15 single-shell tanks on active ventilation (seven are on the Watch List as indicated by an asterisk):

C-105	SX-107
C-106 (2)	SX-108
SX-101 *	SX-109 * (1)
SX-102 *	SX-110
SX-103 *	SX-111
SX-104 *	SX-112
SX-105 *	SX-114
SX-106 *	

Footnotes:

- (1) Tank SX-109 is on the Hydrogen Watch List as it has the potential for flammable gas accumulation only because other SX tanks vent through it.
- (2) Tank C-106 was removed from the High Heat Load Watch List on December 16, 1999.

 A process test to obtain an estimate of the amount of heat load remaining in the waste was completed on February 16, 2000. The remaining heat load in the tank is approximately 10,000 Btu/hr. A draft Process Test Report is being prepared.
- (3) TMACS is O/S due to power outage since August 1999, which caused damage to acromage in T, TX and farms. Readings taken manually.

TABLE A-2 TEMPERATURE MONITORING IN NON-WATCH LIST TANKS March 31, 2000

SINGLE-SHELL TANKS WITH HIGH HEAT LOADS (>26,000 Btu/hr)

Nine tanks have high heat loads for which temperature surveillance requirements are established by HNF-SD-WM-TSR-006, Rev 1, Tank Waste Remediation System Technical Safety Requirements, December 1999.

In an analysis, WHC-SD-WM-SARR-010, Rev 1, Heat Removal Characteristics of Waste Storage Tanks, Kummerer, 1995, it was estimated that nine tanks have heat sources >26,000 Btu/hr, which is the new parameter for determining high heat load tanks. See also document HNF-SD-WM-BIO-001, Rev 1, Tank Waste Remediation Systetem Basis for Interim Operation, Noorani, 1998.

Temperatures in these tanks did not exceed TSR requirements for this month, and are monitored by the Tank Monitor and Control System (TMACS), unless indicated otherwise. All high heat load tanks are on active ventilation.

Tank No.	Temperatu	re (F.)
C-106 (1)	61	(Riser #8)
SX-103	158	
SX-107	163	
SX-108	180	
8X-109 (2)	135	
SX-110	160	
SX-111	181	
SX-112	146	
SX-114	174	
S. T. S. P. S.		

Notes:

- (1) C-106 was removed from the High Heat Load Watch List on December 16, 1999.

 A process test to obtain an estimate of the amount of heat load remaining in the waste was completed on February 16, 2000. The remaining heat load in the tank is approximately 10,000 Btu/hr. A draft Process Test Report is being prepared.
- (2) SX-109 is on the Hydrogen Watch List as it has the potential for flammable gas accumulation only because the other SX tanks vent through it.

SINGLE-SHELL TANKS WITH LOW HEAT LOADS (<26,000 Btu/hr)

There are 114 low heat load non-watch list tanks. Temperatures in tanks connected to TMACS are monitored by TMACS; temperatures in those tanks not yet connected to TMACS are manually taken semiannually in January and July. Temperatures obtained semiannually have been within historical ranges for the applicable tank.

No temperatures have been obtained for several years in the tanks listed below. Most of these tanks have no thermocouple tree.

Tank No.	<u>Tank No.</u>
BX-104	TX-101
BY-102	TX-110
BY-109	TX-114
C-204	TX-116
SX-115	TX-117
T-102	U-104
T-105	

TABLE A-3. ADDITIONS/DELETIONS TO WATCH LISTS BY YEAR March 31, 2000

Added/Deleted dates may differ from dates that tanks were officially added to the Watch Lists. (See Table A-1).

			•		mma C	
	Ferrocyanide	Hydrogen	Organics	High Heat	HRISHERINDSOURCE	DST Total
					HKC	
Added 2/91 (revision to Original List)	1 T-107		o Harandan asialadakilka kurukan barahala kel	A MENDE MANUFERNIS MANUFES STRUCKUS I	1	
Added 8/92	A JENNESSEN NAKIGENAKI SALAMBERKAKAKEN A	1 AW-101	USBRUG - ZAMBETTUBBITANDERETA 			
						and me
Added 3/93			1 U-111		1	
Deleted 7/93	-4 (BX-110) (BX-111)				-4	
	(BY-101)					1 1
Added 12/93	(T-101)					
		1 (U-107)			C	1406 1 1116
Added 2/84	. भारतसम्बद्धाः व्यवस्थाना । साम्यास्य स्थाना । स्थानसम्बद्धाः स्थाना । साम्यास्य स्थाना । साम्यास्य स्थाना ।	THE CAMERICAN CONTROL OF THE CONTROL	1 T-111		1	SHARINGS BURBEROUS
Added 5/94			10 A-101		4	
			AX-102 C-102			
			S-111	i i		
			8X-103			
1 -			TY-104 U-103			
			U-105			
			U-203			
Deleted 11/94	-2 (BX-102)		U-204		-2	
	(BX-106)					
Deleted 6/26	WINDS AND					
Deleted 6/95	-4 (C-108) (C-109)				-4	
	(C-111)					
Deleted 9/96	(C-112) -14 (BY-103)					
Describe 3/50	(BY-104)				-12	
·	(BY-105)					
	(BY-106) (BY-107)					
	(BY-107)					
	(BY-110)					
	(BY-111) (BY-112)					ļ
	(T-107)					
	(TX-118)					
, i	(TY-101) (TY-103)					
	(TY-104)					
Deleted 12/98			-18 (A-101)		-10	
			(AX-102) (B-103)			
			(S-102)			
			(S-111)			ľ
	<u></u>		(8X-103) (8X-106)			
			(T-111)			
			(TX-106)			
			(TX-118) (TY-104)			
			(U-103)			
	İ	·	(U-105)			1
			(U-106) (U-107)			1
			(U-111)			
			(U-203)			
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Deleted 12/99	un, mesten pater dagan karen Materiakan (1993), 191	ново, накнявистической виду від Бій	स्थातस्थात्रस्य स्थानस्थात्रस्य स्थानस्थातस्थात्रस्य स्थानस्थातस्थ	-1 (C-106)	-1	10 10 10 10 10 10 10 10 10 10 10 10 10 1
						.

⁽¹⁾ Eighteen of the 20 tanks were removed from the Organics Watch Liet in December 1998; eight of the tanks removed from the Organics List are also on the Hydrogen Watch List; therefore, the total tanks added/deleted depends upon whether a tank is also on another list.

TABLE A-4. SINGLE-SHELL TANKS MONITORING COMPLIANCE STATUS

149 TANKS (Sheet 1 of 6) March 31, 2000

The following table indicates whether Single-Shell tank monitoring was in compliance with the requirements as specified in the applicable documents as of the last day of the applicable month:

NOTE:

All Watch List and High Heat tank temperature monitoring is in compliance. (4)
All Dome Elevation Survey monitoring is in compliance, with exception (see footnote 11).
All Psychrometrics monitoring is in compliance (2).
Drywell monitoring no longer required (5).
In-tank photos/videos are taken "as needed"

LEGEND:	
	= in compliance with all applicable documentation
N/C	= noncompliance with applicable documentation
0/S	- Out of Service
Neutron	= LOW readings taken by Neutron probe
POP	= Plent Operating Procedure, TO-040-650
MT/FIC/ ENRAF	= Surface level measurement devices
OSD	= Operating Spec. Doc., OST-T-151-00013, 00030, 00031
N/A	= Not applicable (not monitored, or no monitoring schedule)
None	- Applicable equipment not installed
FSAR/TSR	= Final Safety Analysis Report/Technical Safety Requirements

	Tank	Category	Temperature	Primary Leak	Surface Level Readings (1)			LOW Readings
Tenk	Watch High		Readings	Detection		(OSD)		(O\$D)(5,7)
Number	List	Heat	(4)	Source (5)	MT	FIC	ENRAF	Neutron
A-101				LOW				
A-102				None	Trans. Co.			
A-103				Low				
A-104				None				
A-106				None				
A-106				None				
AX-101				LOW	and the same same and the			
AX-102				None				
AX-103				None				
AX-104				None				
B-101				None	a Shirlida La Antiche Antiche			
B-102				ENRAF				
B-103				None				
B-104				LOW				
B-105				LOW				
B-106				FIC		e di didakan bada		
B-107				None				
B-108				None				
B-109		1 (1996)		None				
B-110				LOW				
B-111				LOW	Para de la companya d		H TENERAL SECTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPE	
B-112				ENRAF			# Dalumini wa 2015a	
B-201				MT				
B-202				MT		The gamps of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont		
B-203				MT			A RECORD FOR THE SECOND SECOND	
B-204				MT				
BX-101				ENRAF		A STEEL SAN CONTROL OF		
BX-102	Napherping (1897) (181			None				
BX-103				ENRAF	ngas para di repulanga ar jaban Talah dalam na kantari katika da	a para na Maranas popula Ri na 12 Maranas na 130	a Actorico de Caracteria de la Caracteria de la Caracteria de la Caracteria de la Caracteria de la Caracteria d	
BX-104				ENRAF				
8X-105				None				
8X-106				ENRAF		te kind ind and an analysis		
BX-107				ENRAF		ni seperangan perangan Ni seperangan Ni succession dan perangan		

TABLE A-4. SINGLE-SHELL TANKS MONITORING COMPLIANCE STATUS
149 TANKS (Sheet 2 of 6)

	Tank	Category	Temperature	Primary Leak	Surfa	ice Level Reading	ge (1)	LOW Readings
Tank	Watch	High	Readings	Detection		(OSD)		(OSD)(5,7)
Number	List	Heat	(4)	Source (5)	MT	FIC	ENRAF	Neutron
8X-108	danistiki (tali			None		STEEL STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE		
BX-109				None		e ele musee		
BX-110				None				
BX-111				LOW				
BX-112			C. The Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the	ENRAF	Modeling Southware to the second	TO CONTRACT BASES TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO S		
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BY-103 BY-104		go (Pendighene et coele as hangommete en estelle	VA SCOCICE AUSSESIUS D LI SCHESIPSPESSEN DEL	LOW		en gerene zwelzwerzen 16 henrezen	t Heistein von der der Beit I der begenne in der der Beit	
BY-105		ra i esperiberolariones Sa isbrigas directores		LOW				
BY-106				LOW			halada da anagasta da ang ing	
BY-107				LOW			i gjegngræsegneguer Hilbertelsegende	
BY-108			romana an	None			ngangarasangangangara Bilinganasan	
BY-109			na ng pagparamanappangan Masaramananan	LOW	The Committee of		The Markettan properties	
BY-110				LOW			nesetta eta	
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C-103				ENRAF None		ne Robert a de l'establishe de l'alle de l'establishe de l'establishe de l'establishe de l'establishe de l'est L'establishe de l'establishe de l'establishe de l'establishe de l'establishe de l'establishe de l'establishe d	A LACOR A CHERCARO A CARGO A C	
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TABLE A-4. SINGLE-SHELL TANKS MONITORING COMPLIANCE STATUS 149 TANKS (Sheet 3 of 6)

		ategory	Temperature	Primary Leak	Surfa	ce Level Read	lings (1)	LOW Readings
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TABLE A-4. SINGLE-SHELL TANKS MONITORING COMPLIANCE STATUS 149 TANKS (Sheet 4 of 6)

<u>. </u>	Tank Ca	itegory	Temperature	Primary Leak	Surfa	ce Level Readir	ngs (1)	LOW Readings
Tank	Watch	High	Readings	Detection		(OSD)	_	(OSD)(5,7)
Number	List	Heat	(4)	Source (5)	МТ	FIC	ENRAF	Neutron
U-107				ENRAF				
U-108				LOW		ili ili ili ili ili ili ili ili ili ili		
U-109				ENRAF				
U-110				None		haboteloo		la la la la la la la la la la la la la l
U-111				LOW	A State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the Sta	eledadelesed		
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Totals:	21	9	N/C: 0		N/C: 0	N/C: 0	N/C: 0	N/C: 0
149 tanks	Watch Liet Tanks	High Heat Tenks						:

TABLE A-4. SINGLE-SHELL TANKS MONITORING COMPLIANCE STATUS -149 TANKS (Sheet 5 of 6)

Footnotes:

1. All SSTs have either manual tape, FIC, or ENRAF surface level measuring devices. Some also have zip cords.

ENRAF gauges are being installed to replace FICs (or sometimes manual tapes). The ENRAF gauges are being connected to TMACS, but many are currently being read manually from the field. See Table A-6 for list of ENRAF installations.

- 2. High heat tanks have active exhausters; psychrometrics can be taken in the high heat tanks. Psychrometric readings are taken on an "as needed" basis with the exception of tanks C-105 and C-106. Document OSD-T-151-00013 requires psychrometric readings to be taken in C-105 and C-106 on a monthly frequency when the ventilation system is running. Psychrometric readings previously taken monthly in SX-farm will now be taken annually.
- 3. Tank C-106 was removed from the High Heat Load Watch List on December 16, 1999.
- 4. Temperature readings may be regulated by OSD, POP, or FSAR (FSAR only regulates high heat load tanks). Temperatures cannot be obtained in 13 low heat load tanks (see Table A-2). The OSD does not require readings or repair of out-of-service thermocouples for the low heat load (≤26,000 Btu/h) tanks. However, the POP requires that attempts are to be made semiannually in January and July to obtain readings for these tanks.

Temperatures in some tanks cannot be taken in the waste because the waste level is lower than the lowest thermocouple in these trees.

Temperatures for many tanks are monitored continuously by TMACS; see Table A-7, TMACS Monitoring Status.

5. Document OSD-T-151-00031, "Operating Specifications for Tank Farm Leak Detection," REV C-0, January 13, 1999, requires that single-shell tanks with the surface level measurement device contacting liquid, partial liquid, or floating crust surface, will be monitored for leak detection on a daily basis. Tanks with a solid surface will be monitored for leak detection on a weekly basis by taking neutron scan data from a Liquid Observation Well (LOW), if an LOW is present. Tanks with a solid surface but without LOWs will not be monitored for leak detection if the tank has been interim stabilized, until an LOW is installed.

This OSD revision does not require drywell surveys to be taken. The OSD specifies what leak detection methods are to be used for each tank, and the requirements if the readings are not taken on the required frequency or if equipment is out of service.

 Leak detection for the catch tanks is performed by monitoring for the buildup of liquid in the secondary containment (for most tanks with secondary containment) or for decrease in the liquid level for those tanks without secondary containment or secondary containment monitoring.

Catch tank 240-S-302 is monitored for intrusions only, and is not subject to leak detection monitoring requirements until liquid is present above the intrusion level.

Weight Factor is the surface level measuring device currently used in A-417, A-350, 244-A Tank/Sump, and 244-S Tank/Sump. DCRT CR-003 is inactive and measured in gallons.

TABLE A-4. SINGLE-SHELL TANKS MONITORING COMPLIANCE STATUS - 149 TANKS (Sheet 6 of 6)

7. Document SD-WM-TI-605, REV. 0, dated January 1994, describes the rationale for Liquid Observation Well (LOW) installation priority. This priority is based on tank leak status, tank surface condition, and tank stabilization status. Also included is a listing of tanks with the waste level being below two feet which have no priority assigned because no effort will be made to install LOWs in the near future. LOW probes are unable to accurately monitor interstitial liquid levels less than two feet high.

Tanks which will not receive LOWs:

A-102	BX-101	C-201	T-106
A-104	BX-103	C-202	T-108
A-105	BX-105	C-203	T-109
AX-102	BX-106	C-204	TX-107
AX-104	BX-108	SX-110	TY-102
B-102	C-108	SX-113	TY-104
B-103	C-109	SX-115	TY-106
B-112	C-111	T-102	U-101
		T-103	U-112

Total - 34 Tanks

- 8. Tank TX-105 the LOW was in riser 8; the riser has been removed and the LOW has not been monitored since January 1987. Liquid levels are being taken in riser 9 by ENRAF and recorded in TMACS.
- 9. Tank AX-101 LOW readings are taken by gamma sensors.
- 10. Tank S-112 ILL one inch intrusion occurred early in February 2000. LOW increases tie in with rainfall received in late January and early February. Saltwell screen to be installed to saltwell pump and stabilize the tank. Discrepancy Report 00-877 issued March 29, 2000.
- 11. Tank S-110 Neutron LOW scan taken on January 27, 2000, was more than 3 standard deviations above baseline, indicating a possible intrusion. Discrepancy Report 00-875 was issued February 1, 2000. Work Package 2W-99-0310 has been issued: work not yet completed.

TABLE A-5. DOUBLE-SHELL TANKS MONITORING COMPLIANCE STATUS 28 TANKS (Sheet 1 of 2) March 31, 2000

The following table indicates whether Double-Shell tank monitoring was in compliance with the requirements as specified in the applicable documents as of the last day of the applicable month.

NOTE:

Dome Elevation Surveys are not required for DSTs.
Psychrometrics and in-tank photos/videos are taken "as needed" (2)

LEGEND: - In compliance with all applicable documentation N/C = Noncompliance with applicable documentation = Surface level measurement devices FIC/ENRAF M.T. OSD = OSD-T-151-0007, OSD-T-151-00031 = no M.T., FIC or ENRAF installed None = Out of Service O/S W.F. - Weight Factor - Not Applicable (not monitored or no monitoring schedule) N/A Rad. = Radiation

						Re	diation Readings	
		Temperature Readings	Surfa	nce Level Read	ings (1)	4	etion Pits (4)	i
Tank		(3)		(OSD)			OSÓ)	Annulus
Number	Watch List	(OSD)	M.T.	FIC	ENRAF	W.F.	Rad. (6)	(OSD)
AN-101								
AN-102								
AN-103				properson of the second	TOTA GENERAL PERSONAL TE Missialan kananan Merikanan	i ang gapan kagang karabah kaga Tang pagalangan dan bahalansa		
AN-104		renga namangga Angasan Jengtan Pengalang Tabulah Salah	High and the second second	ng i njerene sangar nggar ng Hasasa Mahaana ana Mai Mi	ात्रवारामाद्वाराज्यसम्बद्धाः । । विक्रितामाद्वाराज्यसम्बद्धाः । विक्रम् स्टाब्स्ट्री । विक्रम्याद्वाराज्यसम्बद्धाः । विक्रम्यानान्त्रस्य	Takish da paramanan mengan Takish da bangan da bangan		
AN-105				grafagajaj magagranjaganaja Si 1918 Diamatagranjaganaja				
AN-106		. Grande de la compania de la compania de la compania de la compania de la compania de la compania de la compa						
AN-107					THE THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON O			
AP-101				The second second second second second second second second second second second second second second second s		FM.LLENS		
AP-102				Part of Parties 1111		naelgaa		
AP-103				7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
AP-104			EMCGMM	To the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the				
AP-105								
AP-106						HECT THE		
AP-107								
AP-108								
AW-101								
AW-102								
AW-103								
AW-104				THE STREET				
AW-106								
AW-106								
AY-101								
AY-102								
AZ-101								
AZ-102								HEIM
8Y-101			Single Perpadent Sept.					
8Y-102								
SY-103						37.		
Totals:	. 6	N/C: 0	N/C: 0	N/C: 0	N/C: 0	N/C: 0	N/C: 0	N/C: 0
28 tanks	Watch List Tanks			1		i		ł

TABLE A-5. DOUBLE-SHELL TANKS MONITORING COMPLIANCE STATUS - 28 TANKS (Sheet 2 of 2)

Footnotes:

- Some double-shell tanks have both FIC and manual tape which is used when the FIC is out of service.
 Noncompliance (N/C) will be shown when no readings are obtained. ENRAF gauges are being installed to replace FICs. The ENRAF gauges are being connected to TMACS, but some are currently being read manually.
- 2. Psychrometric readings are taken on an "as needed" basis. No psychrometric readings are currently being taken in the double-shell tanks.
- 3. OSD specifies double-shell tank temperature limits, gradients, etc.
- 4. Applicable OSD and HNF-IP-0842, latest revisions, are used as guidelines for monitoring Leak Detection Pits. See also (6) and (7) below.
- 5. AW-102 has ENRAF, FIC and M.T. At some point the FIC will be removed.
- 6. USQ TF-97-0038, dated April 28, 1997, specifies discontinuing the use of leak detection pit radiation monitoring equipment in all double-shell tank farms where the leak detection pits are used as tertiary leak detection. This applies to all double-shell tank farms.
- 7. Leak Detection Pit weekly readings are being obtained by Instrument Technicians in these tanks:

 AP-103C (for tanks AP-101 104)

 AP-105C (for tanks AP-105 108)
- SY-103 Manual Tape has sporadic readings. ENRAF is primary device.
 SY-102 Manual Tape has sporadic readings. ENRAF is primary device.

TABLE A-6. ENRAF SURFACE LEVEL GAUGE INSTALLATION AND DATA INPUT METHODS

March 31, 2000

LEGEND

SACS

= Surveillance Analysis Computer System

TMACS = Tank Monitor and Control System

Auto

= Automatically entered into TMACS and electronically transmitted to SACS

Manual

= Manually entered directly into SACS by surveillance personnel, from Field Data sheets

	<u> </u>										
EAST A	AREA	· · · · · · · · · · · · · · · · · · ·				WEST	AREA				
Tank	Installed	Input	Tank	Installed	Input	Tank	Installed	Input	Tank	Installed	Input
No.	Date	Method	No.	Date	Method	No.	Date	Method	No.	Date	Method
A-101	09/95	Auto	B-201			8-101	02/95	Auto	TX-10	11/95	Auto
A-102			B-202			8-102	05/95	Auto	TX-10	2 05/96	Auto
A-103	07/96	Auto	B-203			8-103	05/94	Auto	TX-10	3 12/95	Auto
A-104	05/98	Manual	B-204			8-104	05/99	Auto	TX-10	03/96	Auto
A-105			BX-101	04/96	Auto	8-105	07/95	Auto	TX-10	04/96	Auto
A-106	01/96	Auto	BX-102	06/96	Auto	8-106	06/94	Auto	TX-10	3 04/96	Auto
AN-101	08/96	Auto	BX-103	04/96	Auto	8-107	06/94	Auto	TX-10	7 04/96	Auto
AN-102			BX-104	05/96	Auto	8-108	07/95	Auto	TX-10	04/96	Auto
AN-103	08/95	Auto	BX-105	03/96	Auto	8-10 9	08/96	Auto	TX-10	11/95	Auto
AN-104	08/95	Auto	BX-106	07/94	Auto	8-110	08/95	Auto	TX-11	05/96	Auto
AN-105	08/95	Auto	BX-107	06/96	Auto	8-111	08/94	Auto	TX-11		Auto
AN-106	ļ		BX-108	05/96	Auto	8-112	05/95	Auto	TX-11		Auto
AN-107			BX-109	08/95	Auto	8X-101	04/95	Auto	TX-11		Auto
AP-101	06/99	Auto	BX-110	06/96	Auto	8X-102	04/95	Auto	TX-11	05/96	Auto
AP-102	08/99	Auto	8X-111	05/96	Auto	8X-103	04/96	Auto	TX-11		Auto
AP-103	08/99	Auto	BX-112	03/96	Auto	8X-104	05/95	Auto	TX-11		Auto
AP-104	07/99	Auto	BY-101			SX-105	06/96	Auto	TX-11		Auto
AP-105	08/99	Auto	BY-102	09/99	Manual	8X-106	08/94	Auto	TX-111		Auto
AP-106	08/99	Auto	BY-103	12/96	Manual	8X-107	09/99	Auto	TY-10		Auto
AP-107	08/99	Auto	BY-104			SX-108	09/99	Auto	TY-10:		Auto
AP-108	08/99	Auto	8Y-105			SX-109	09/98	Auto	TY-10:		Auto
AW-101	08/95	Auto	BY-108			8X-110	09/99	Auto	TY-10		Auto
AW-102	06/96	Auto	BY-107			8X-111	09/99	Auto	TY-100		Auto
AW-103	05/96	Auto	BY-108			8X-112	09/99	Auto	TY-100	12/95	Auto
AW-104	01/96	Auto	BY-109		-2-	8X-113	09/99	Auto	U-101		
AW-105	06/96	Auto	BY-110	02/97	Manual	8X-114	09/99	Auto	U-102	01/96	Manual
AW-106	06/96	Auto	BY-111	02/99	Menual	8X-115	09/99	Manuel	U-103	07/94	Auto
AX-101	09/95	Auto	BY-112			SY-101	07/94	Auto	U-104		
AX-102	09/98	Auto	C-101			SY-102	06/94	Auto	U-106	07/94	Auto
AX-103	09/96	Auto	C-102	09/04	4.44	8Y-103	07/94	Auto	U-108	08/94	Auto
AX-104	10/96	Auto	C-103	08/94	Auto	T-101	05/95	Manual	U-107	06/94	Auto
AY-101	03/96	Auto	C-104	04/99	Manual	T-102	06/94	Auto	U-108	06/95	Auto
AY-102	01/98	Auto Manual	C-106 C-106	06/96 02/96	Menuel Auto	T-103	07/95 12/95	Manual Manual	U-109	07/94	Auto
AZ-101	06/90	Mariual	C-107	04/95		T-105	07/95		U-111	01/96	
AZ-102 B-101	 		C-107	V-/80	Auto	T-108	07/95	Manual Manual	U-111	01/96	Manual
B-101 B-102	02/95	Menuel	C-109			T-107	06/94	Auto	U-112 U-201		
B-102 B-103	02/90		C-110			T-107	10/95	Manuel	U-201		
B-103			C-111			T-108	09/94	Manual	U-202	09/98	Menual
B-104 B-105	 -		C-112	03/96	Manual	T-110	06/95	Auto	0-203 U-204	06/98	Manual
B-106	 		C-201	24.50	WE 1001	T-111	07/95	Menual	V-2V4		- MAINS
B-107	-		C-202			T-112	09/95	Manual			
8-107 8-108	 		C-203			T-201	00,00	14141 (1981	·		<u> </u>
8-109	 		C-204			T-202					
B-110	 					T-203				 	
B-111	<u> </u>			<u> </u>		T-204					
	02/05	Manarat									
B-112	03/95	Manuel							0.00		<u></u>
	st Area: 53						est Area: 77				
			- 47 44	ntered into Ti							

¹³⁰ ENRAFs installed: 104 automatically entered into TMACS, 26 manually entered into SACS

TABLE A-7. TANK MONITOR AND CONTROL SYSTEM (TMACS) March 31, 2000

Note: Indicated below are the number of tanks having at least one operating sensor monitored by TMACS.

Some tanks have more than one sensor: multiple sensors of the same type in a tank are not shown in the table (for example: 10 tanks in BY-Farm have at least one operating TC sensor and 3 tanks in BY-Farm have at least one operating RTD sensor).

Acceptance Testing Completed: Sensors Automatically Monitored by TMACS

	Temper	atures				
		Resistance		1		ŀ
EAST AREA	Thermocouple	Thermal	ENRAF			Gas
	Tree	Device	Level	Pressure	Hydrogen	Sample
Tank Farm	(TC)	(RTD)	Gauge	(b)	(c)	Flow
A-Ferm (6 Tanks)	1	•	3		1	1
AN-Farm (7 Tanks)	7		4	7	3	3
AP-Farm (8 Tanke)			8			1
AW-Farm (6 Tanks)	6		6		1	1
AX-Farm (4 Tanks)	3		4		1	
AY-Ferm (2 Tanks)			2			
AZ-Farm (2 Tanks)			· · · · · · · · · · · · · · · · · · ·			İ
B-Farm (16 Tanks)	1					
BX-Farm (12 Tanks)	11		12 (e)			
BY-Farm (12 Tanks)	10	3				
C-Farm (16 Tanks)	15	1	3	1		
TOTAL EAST AREA						
(91 Tanks)	54	4	42	8	6	5
WEST AREA						_
S-Farm (12 Tanks)	12		12	1	3	1 (f)
SX-Ferm (15 Tanks)	14		14	1	7	5 (f)
SY-Farm (3 Tanks) (a)	3		3	1	2	2
T-Farm (16 Tanks) (d)	14	1	3		1	(f)
TX-Ferm (18 Tanks) (d)	13		18			
TY-Farm (6 Tenks) (d)	6	3	6			
U-Farm (16 Tanks)	15		6	4	6	6
TOTAL WEST AREA						
(86 Tanks)	77	4	62	7	19	19
TOTALS (177 Tanks)	131	8	104	15	25	24

- (a) Tank SY-101 has 2 gas sample flow sensors plus 2 vent flow sensors, and 2 ENRAFs.
- (b) Each tank has two sensors (high and low range).
- (c) Each tank has two sensors (high and low range).
- (d) TMACS has been out of service since August 1999 due to power outage which caused damage to acromage in T, TX and TY farms. Readings taken manually.
- (e) BX-106, 108, and 109 ENRAFs out of service. Manual readings taken quarterly.
- (f) S, SX, and T-Farms five gas sample flow sensors have been unhooked or removed. Will eventually use SHMS equipment on other tanks but none scheduled yet.

APPENDIX B

DOUBLE-SHELL TANK WASTE TYPE AND SPACE ALLOCATION

Table B-1. Double Shell Tank Waste Inventory for March 2000

	1000 miles	
02/00 TOTAL	2736	

A Commence of the	241-87-103	241-87-102	241-87-101	241-AZ-102	241-42-101	241-AY-102	241-AY-101	241-AW-106	241-AW-10	241-AW-10	241-AW-10:	241-AW-102	241-AW-10	241-AP-100	241-AP-107	241-AP-106	241-AP-108	241-AP-104	241-AP-10:	241-AP-102	241-AP-10;	241-AN-10:	241-AN-100	241-AN-10	241-44-104	241-AV-103	241-AN-102	241-44-10	The state of the second
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- NOTE: All Volumee in Kito-Galtons (Kgals)

 NOTE: Solids Adjusted to Most Current Available Data

 (1): Total Solids Volume = Sludge + Saitcake + Interstitial Liquid

 (2): Interstitial Liquids = volume of liquid entrained in the solid waste faction

k Space Usage	Inventory Calculation by Waste Type:	
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	AGING WASTE	1092
	AGING SOLIDS	1125
	Del Sollings	3970

Table B-1. Double Shell Tank Waste Inventory for March 31, 2000

ATCH LIST TANK SPACE:		WASTE TYPE	AVAILABLE	
nusable DST Headspace - Due to Special Restrictions	AN-103 AN-104	-		KGALS
aced on the Tanks, as Stated in the "Wyden Bill"	AN-104 AN-105	·		KGALS KGALS
	AW-101		- •	KGALS
	SY-101	,		KGALS
	SY-103		,	KGALS
		TOTAL*	851	KGALB
	,	AVAILABLE TANK SPACE=	10897	KGALS
		IUS WATCH LIST SPACE=	-851	KGALS
TOTAL AVAILABLE SPACE AFTER W	KTCH LIGT!	BPACE DEDUCTIONS	10048	KCALL
STRICTED TANK SPACE:		WASTE TYPE	AVAILABLE	SPACE
T Headspace Available to Store Only Specific Waste T		00		VOAL C
	AN-102 AN-107	• •		KGALS
	AP-107			KGALS
	AZ-101		• • •	KGALS
	AZ-102			KGALS
	,	TOTAL=		KGALI
AVAILABLE SPACI	E AFTER W	ATCH LIST DEDUCTIONS	10046	VOME
			1000	NONLO
		S RESTRICED SPACE=		
TOTAL AVAILABLE SPACE AFTER RES	MINU	S RESTRICED SPACE=	-386	KGALS KGALS
	MINU	S RESTRICED SPACE=	-386	KGALS KGALS
ABLEWASTE RECEIVER TANK SPACE: T Heedspace Available to Store Facility Generated	MINU	S RESTRICED SPACE= IPACE DEDUCTIONS= WASTE TYPE	-386 9440 AVAILABLE 980	KGALS KGALS SPACE KGALS
ABLEWASTE RECEIVER TANK SPACE: T Heedspace Available to Store Facility Generated	MINU TRIGTED 8 TANK AN-101 AN-106	S RESTRICED SPACE= SPACE DEDUCTIONS= WASTE TYPE DN CC	-386 9840 AVAILABLE 980 1100	KGALS KGALS SPACE KGALS KGALS
ABLEWASTE RECEIVER TANK SPACE:	TANK AN-101 AN-106 AP-101	S RESTRICED SPACE= SPACE DEDUCTIONS= WASTE TYPE DN CC DSSF	-386 9640 AVAILABLE 980 1100 27	KGALS KGALS SPACE KGALS KGALS KGALS
ABLEWASTE RECEIVER TANK SPACE:	TANK AN-101 AN-106 AP-101 AP-103	S RESTRICED SPACE= SPACE DEDUCTIONS= WASTE TYPE DN CC DSSF CC	-386 9640 AVAILABLE 980 1100 27 857	KGALS KGALS SPACE KGALS KGALS KGALS KGALS
ABLEWASTE RECEIVER TANK SPACE: T Heedspace Available to Store Facility Generated	TANK AN-101 AN-106 AP-101 AP-103 AP-104	S RESTRICED SPACE= SPACE DEDUCTIONS= WASTE TYPE DN CC DSSF CC CC	-386 9640 AVAILABLE 960 1100 27 857 29	KGALS KGALS KGALS KGALS KGALS KGALS KGALS
ABLEWASTE RECEIVER TANK SPACE: IT Headspace Available to Store Facility Generated d Evaporator Product Waste	TANK AN-101 AN-106 AP-101 AP-103 AP-104 AP-105	S RESTRICED SPACE= SPACE DEDUCTIONS= WASTE TYPE DN CC DSSF CC CC DSSF	-386 9640 AVAILABLE 980 1100 27 857 29 174	KGALS KGALS KGALS KGALS KGALS KGALS KGALS
ABLEWASTE RECEIVER TANK SPACE: T Heedspace Available to Store Facility Generated	TANK AN-101 AN-106 AP-101 AP-103 AP-104 AP-105 AP-106	S RESTRICED SPACE= SPACE DEDUCTIONS= WASTE TYPE DN CC DSSF CC CC DSSF DN	-386 9640 AVAILABLE 980 1100 27 857 29 174 514	SPACE KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS
ABLEWASTE RECEIVER TANK SPACE: THeedspace Available to Store Facility Generated d Evaporator Product Waste FACILITY WASTE RECEIVER TANK	TANK AN-101 AN-106 AP-101 AP-103 AP-104 AP-105 AP-106 AP-107	S RESTRICED SPACE= SPACE DEDUCTIONS= WASTE TYPE DN CC DSSF CC CC DSSF DN DN DN DN	-386 9640 AVAILABLE 980 1100 27 857 29 174 514 1102	KGALS KGALS SPACE KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS
ABLEWASTE RECEIVER TANK SPACE: IT Heedspace Available to Store Facility Generated of Evaporator Product Weste FACILITY WASTE RECEIVER TANK FACILITY WASTE RECEIVER TANK	TANK AN-101 AN-106 AP-101 AP-103 AP-104 AP-105 AP-106 AP-107 AP-108	S RESTRICED SPACE= SPACE DEDUCTIONS= WASTE TYPE DN CC DSSF CC CC DSSF DN DN DN DN DN DN	-386 9640 AVAILABLE 980 1100 27 857 29 174 514 1102 759	KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS
ABLEWASTE RECEIVER TANK SPACE: IT Headspace Available to Store Facility Generated of Evaporator Product Waste FACILITY WASTE RECEIVER TANK	TANK AN-101 AN-106 AP-101 AP-103 AP-104 AP-105 AP-106 AP-107 AP-108 AW-102	S RESTRICED SPACE= SPACE DEDUCTIONS= WASTE TYPE DN CC DSSF CC CC DSSF DN DN DN DN DN DN	-386 9640 AVAILABLE 980 1100 27 857 29 174 514 1102 759 124	KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS
ABLEWASTE RECEIVER TANK SPACE: IT Heedspace Available to Store Facility Generated of Evaporator Product Weste FACILITY WASTE RECEIVER TANK FACILITY WASTE RECEIVER TANK	TANK AN-101 AN-106 AP-101 AP-103 AP-104 AP-105 AP-106 AP-107 AP-108 AW-102 AW-102	S RESTRICED SPACE= SPACE DEDUCTIONS= WASTE TYPE DN CC DSSF CC CC DSSF DN DN DN DN DN DN NCRW	-386 9640 AVAILABLE 980 1100 27 857 29 174 514 1102 759 124 628	KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS
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ABLEWASTE RECEIVER TANK SPACE: THeedspace Available to Store Facility Generated de Evaporator Product Waste FACILITY WASTE RECEIVER TANK FACILITY WASTE RECEIVER TANK EVAPORATOR FEED TANK	TANK AN-101 AN-106 AP-101 AP-103 AP-104 AP-105 AP-106 AP-107 AP-108 AW-102 AW-103 AW-104 AW-104	RESTRICED SPACE= IPACE DEDUCTIONS= WASTE TYPE DN CC DSSF CC CC DSSF DN DN DN DN DN NCRW DN NCRW	-386 9640 AVAKABLE 980 1100 27 857 29 174 514 1102 759 124 628 23 713	KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS
ABLEWASTE RECEIVER TANK SPACE: IT Heedspace Available to Store Facility Generated of Evaporator Product Weste FACILITY WASTE RECEIVER TANK FACILITY WASTE RECEIVER TANK	TANK AN-101 AN-106 AP-101 AP-103 AP-104 AP-105 AP-106 AP-107 AP-108 AW-102 AW-103 AW-104	S RESTRICED SPACE= IPACE DEDUCTIONS= WASTE TYPE DN CC DSSF CC CC DSSF DN DN DN DN DN NCRW DN NCRW DSSF	-386 9640 AVAKABLE 980 1100 27 857 29 174 514 1102 759 124 628 23 713 872	KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS KGALS
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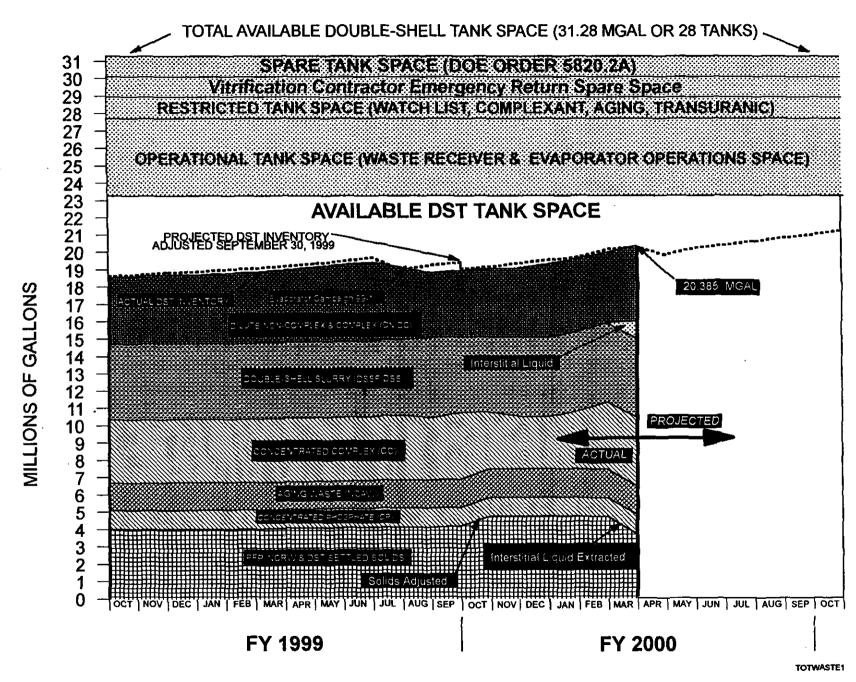


FIGURE F-1. COMPARISON OF WASTE VOLUME GENERATIONS FOR HANFORD FACILITIES (All volumes in Kgals)

APPENDIX C

TANK AND EQUIPMENT CODE AND STATUS DEFINITIONS

C. TANK AND EQUIPMENT CODE/STATUS DEFINITIONS March 31, 2000

1. TANK STATUS CODES

WASTE TYPE (also see definitions, section 3)

Aging Waste (Neutralized Current Acid Waste [NCAW]) AGING Complexant Concentrate Waste CC Concentrated Phosphate Waste CP Dilute Complexed Waste DC Dilute Non-Complexed Waste DN DSS **Double-Shell Slurry** Double-Shell Slurry Feed DSSF Non-Complexed Waste NCPLX Plutonium-Uranium Extraction (PUREX) Neutralized Cladding PD/PN Removal Waste (NCRW), transuranic waste (TRU) PT Plutonium Finishing Plant (PFP) TRU Solids

TANK USE (DOUBLE-SHELL TANKS ONLY)

CWHT. Concentrated Waste Holding Tank
DRCVR Dilute Receiver Tank
EVFD Evaporate Feed Tank
SRCVR Slurry Receiver Tank

2. SOLID AND LIQUID VOLUME DETERMINATION METHODS

- F Food Instrument Company (FIC) Automatic Surface Level Gauge
- E ENRAF Surface Level Gauge (being installed to replace FICs)
- M Manual Tape Surface Level Gauge
- P Photo Evaluation
- S Sludge Level Measurement Device

3. **DEFINITIONS**

WASTE TANKS - GENERAL

Waste Tank Safety Issue

A potentially unsafe condition in the handling of waste material in underground storage tanks that requires corrective action to reduce or eliminate the unsafe condition.

Watch List Tank

An underground storage tank containing waste that requires special safety precautions because it may have a serious potential for release of high level radioactive waste because of uncontrolled increases in temperature or pressure. Special restrictions have been placed on these tanks by "Safety Measures for Waste Tanks at Hanford Nuclear Reservation," Section 3137 of the National Defense Authorization Act for Fiscal Year 1991, November 5, 1990, Public Law 101-510, (also known as the Wyden Amendment).

Characterization

Characterization is understanding the Hanford tank waste chemical, physical, and radiological properties to the extent necessary to insure safe storage and interim operation, and ultimate disposition of the waste.

WASTE TYPES

Aging Waste (AGING)

High level, first cycle solvent extraction waste from the PUREX plant (NCAW)

Concentrated Complexant (CC)

Concentrated product from the evaporation of dilute complexed waste.

Concentrated Phosphate Waste (CP)

Waste originating from the decontamination of the N Reactor in the 100 N Area. Concentration of this waste produces concentrated phosphate waste.

Dilute Complexed Waste (DC)

Characterized by a high content of organic carbon including organic complexants: ethylenediaminetetraacetic acid (EDTA), citric acid, and hydroxyethyl-ethylenediaminetriacetic acid (HEDTA), being the major complexants used. Main sources of DC waste in the DST system are saltwell liquid inventory (from SSTs).

Dilute Non-Complexed Waste (DN)

Low activity liquid waste originating from T and S Plants, the 300 and 400 Areas, PUREX facility (decladding supernatant and miscellaneous wastes), 100 N Area (sulfate waste), B Plant, saltwells, and PFP (supernate).

Double-Shell Slurry (DSS)

Waste that exceeds the sodium aluminate saturation boundary in the evaporator without exceeding receiver tank composition limits. For reporting purposes, DSS is considered a solid.

Double-Shell Slurry Feed (DSSF)

Waste concentrated just before reaching the sodium aluminate saturation boundary in the evaporator without exceeding receiver tank composition limits. This form is not as concentrated as DSS.

Non-complexed (NCPLX)

General waste term applied to all Hanford Site (NCPLX) liquors not identified as complexed.

PUREX Decladding (PD)

PUREX Neutralized Cladding Removal Waste (NCRW) is the solids portion of the PUREX plant neutralized cladding removal waste stream; received in Tank Farms as a slurry. NCRW solids are classified as transuranic (TRU) waste.

PFP TRU Solids (PT)

TRU solids fraction from PFP Plant operations.

Drainable Interstitial Liquid (DIL)

Interstitial liquid that is not held in place by capillary forces, and will therefore migrate or move by gravity. (See also Section 4)

Supernate

The liquid above the solids or in large liquid pools covered by floating solids in waste storage tanks. (See also Section 4 below)

Ferrocyanide

A compound of iron and cyanide commonly expressed as FeCN. The actual formula for the ferrocyanide anion is [Fe(CN)₆]⁻⁴.

INTERIM STABILIZATION (Single-Shell Tanks only)

Interim Stabilized (IS)

A tank which contains less than 50 Kgallons of drainable interstitial liquid and less than 5 Kgallons of supernatant liquid. If the tank was jet pumped to achieve interim stabilization, then the jet pump flow or saltwell screen inflow must also have been at or below 0.05 gpm before interim stabilization criteria is met.

Jet Pump

The jet pump system includes 1) a jet assembly with foot valve mounted to the base of two pipes that extend from the top of the well to near the bottom of the well casing inside the saltwell screen, 2) a centrifugal pump to supply power fluid to the down-hole jet assembly, 3) flexible or rigid transfer jumpers, 4) a flush line, and 5) a flowmeter. The jumpers contain piping, valves, and pressure and limit switches.

The centrifugal pump and jet assembly are needed to pump the interstitial liquid from the saltwell screen into the pump pit, nominally a 40-foot elevation rise. The power fluid passes through a nozzle in the jet assembly and acts to convert fluid pressure head to velocity head, thereby reducing the pressure in the jet assembly chamber. The reduction in pressure allows the interstitial liquid to enter the jet assembly chamber and mix with the power fluid. Velocity head is converted to pressure head above the nozzle, lifting power fluid, and interstitial liquid to the pump pit. Pumping rates vary from 0.05 gallons to about 4 gpm.

Saltwell Screen

The saltwell system is a 10-inch diameter saltwell casing consisting of a stainless steel saltwell screen welded to a Schedule 40 carbon steel pipe. The casing and screen are to be inserted into the 12-inch tank riser located in the pump pit. The stainless steel screen portion of the system will extend through the tank waste to near the bottom of the tank. The saltwell screen portion of the casing is an approximately 10-foot length of 300 Series, 10-inch diameter, stainless steel pipe with screen openings (slots) of 0.05 inches.

Emergency Pumping Trailer

A 45-foot tractor-type trailer is equipped to provide storage space and service facilities for emergency pumping equipment: this consists of two dedicated jet pump jumpers and two jet pumps, piping and dip tubes for each, two submersible pumps and attached piping, and a skid-mounted Weight Factor Instrument Enclosure (WFIE) with an air compressor and electronic recording instruments. The skid also contains a power control station for the pumps, pump pit leak detection, and instrumentation. A rack for over 100 feet of overground double-contained piping is also in the trailer.

INTRUSION PREVENTION (ISOLATION) Single-Shell Tanks only

Partially Interim Isolated (PI)

The administrative designation reflecting the completion of the physical effort required for Interim Isolation except for isolation of risers and piping that is required for jet pumping or for other methods of stabilization.

Interim Isolated (II)

The administrative designation reflecting the completion of the physical effort required to minimize the addition of liquids into an inactive storage tank, process vault, sump, catch tank, or diversion box. In June 1993, Interim Isolation was replaced by Intrusion Prevention.

Intrusion Prevention (IP)

Intrusion Prevention is the administrative designation reflecting the completion of the physical effort required to minimize the addition of liquids into an inactive storage tank, process vault, sump, catch tank,

or diversion box. Under no circumstances are electrical or instrumentation devices disconnected or disabled during the intrusion prevention process (with the exception of the electrical pump).

Controlled, Clean, and Stable (CCS)

Controlled, Clean, and Stable reflects the completion of several objectives: "Controlled" - provide remote monitoring for required instrumentation and implement controls required in the TWRS Authorization Basis; "Clean" - remove surface soil contamination and downpost the Tank Farms to RBA/URMA/RA radiological control status, remove abandoned equipment, and place reusuable equipment in compliant storage; and "Stable" - remove pumpable liquids from the SSTs and IMUSTs and isolate the tanks.

TANK INTEGRITY

Sound

The integrity classification of a waste storage tank for which surveillance data indicate no loss of liquid attributed to a breach of integrity.

Assumed Leaker

The integrity classification of a waste storage tank for which surveillance data indicate a loss of liquid attributed to a breach of integrity.

Assumed Re-Leaker

A condition that exists after a tank has been declared as an "assumed leaker" and then the surveillance data indicates a new loss of liquid attributed to a breach of integrity.

TANK INVESTIGATION

Intrusion

A term used to describe the infiltration of liquid into a waste tank.

SURVEILLANCE INSTRUMENTATION

Drywells

Drywells are vertical boreholes with 6-inch (internal diameter) carbon steel casings positioned radially around SSTs. These wells range between 50 and 250 feet in depth, and are monitored between the range of 50 to 150 feet. The wells are sealed when not in use. They are called drywells because they do not penetrate to the water table and are therefore usually "dry." There are 759 drywells.

Monitoring is done by gamma radiation or neutron-moisture sensors to obtain scan profiles of radiation or moisture in the soil as a function of well depth, which could be indicative of tank leakage.

Two single-shell tanks (C-105 and C-106) are currently monitored monthly by gamma radiation sensors. The remaining drywells are monitored on request by gamma radiation sensors. Monitoring by neutron-moisture sensors is done only on request.

Laterals

Laterals are horizontal drywells positioned under single-shell waste storage tanks to detect radionuclides in the soil which could be indicative of tank leakage. These drywells can be monitored by radiation detection probes. Laterals are 4-inch inside diameter steel pipes located 8 to 10 feet below the tank's concrete base. There are three laterals per tank. Laterals are located only in A and SX farms. There are currently no functioning laterals and no plan to prepare them for use.

Surface Levels

The surface level measurements in all waste storage tanks are monitored by manual or automatic conductivity probes, and recorded and transmitted or entered into the Surveillance Analysis Computer System (SACS).

Automatic FIC

An automatic waste surface level measurement device is manufactured by the Food Instrument Company (FIC). The instrument consists of a conductivity electrode (plummet) connected to a calibrated steel tape, a steel tape reel housing and a controller that automatically raises and lowers the plummet to obtain a waste surface level reading. The controller can provide a digital display of the data and until February 1999, the majority of the FICs transmitted readings to the CASS. Since CASS retirement, all FIC gauges are read manually. FICs are being replaced by ENRAF detectors (see below).

ENRAF 854 ATG Level Detector

FICs and some manual tapes are in the process of being replaced by the ENRAF ATG 854 level detector. The ENRAF gauge, fabricated by ENRAF Incorporated, determines waste level by detecting variations in the weight of a displacer suspended in the tank waste. The displacer is connected to a wire wound onto a precision measuring drum. A level causes a change in the weight of the displacer which will be detected by the force transducer. Electronics within the gauge causes the servo motor to adjust the position of the displacer and compute the tank level based on the new position of the displacer drum. The gauge displays the level in decimal inches. The first few ENRAFs that received remote reading capability transmit liquid level data via analog output to the Tank Monitor and Control System (TMACS). The remaining ENRAFs and future installations will transmit digital level data to TMACS via an ENRAF Computer Interface Unit (CIU). The CIU allows fully remote communication with the gauge, minimizing tank farm entry.

Annulus

The annulus is the space between the inner and outer shells on DSTs only. Drain channels in the insulating and/or supporting concrete carry any leakage to the annulus space where conductivity probes are installed. The annulus conductivity probes and radiation detectors are the primary means of leak detection for all DSTs.

Liquid Observation Well (LOW)

In-tank liquid observation wells are used for monitoring the interstitial liquid level (ILL) in single-shell waste storage tanks. The wells are usually constructed of fiberglass or TEFZEL-reinforced epoxy-polyester resin (TEFZEL, a trademark of E. I. du Pont de Nemours & Company). There are a few LOWs constructed of steel. LOWs are sized to extend to within 1 inch of the bottom of the waste tank, are sealed at their bottom ends and have a nominal outside diameter of 3.5 inches. Two probes are used to monitor changes in the ILL; gamma and neutron, which can indicate intrusions or leakage by increases or decreases in the ILL. There are 65 LOWs (64 are in operation) installed in SSTs that contain or are capable of containing greater than 50 Kgallons of drainable interstitial liquid, and in two DSTs only. The LOWs installed in two DSTs, (SY-102 and AW-103 tanks), are used for special, rather than routine, surveillance purposes only.

Thermocouple (TC)

A thermocouple is a thermoclectric device used to measure temperature. More than one thermocouple on a device (probe) is called a thermocouple tree. In DSTs there may be one or more thermocouple trees in risers in the primary tank. In addition, in DSTs only, there are thermocouple elements installed in the insulating concrete, the lower primary tank knuckle, the secondary tank concrete foundation, and in the outer structural concrete.

These monitor temperature gradients within the concrete walls, bottom of the tank, and the domes. In SSTs, one or more thermocouples may be installed directly in a tank, although some SSTs do not have any trees installed. A single thermocouple (probe) may be installed in a riser, or lowered down an existing

riser or LOW. There are also four thermocouple laterals beneath Tank 105-A in which temperature readings are taken in 34 thermocouples.

In-tank Photographs and Videos

In-tank photographs and videos may be taken to aid in resolving in-tank measurement anomalies and determine tank integrity. Photographs and videos help determine sludge and liquid levels by visual examination.

TERMS/ACRONYMS

CCS Controlled, Clean and Stable (tank farms)

FSAR Final Safety Analysis Report (replaces BIOS, effective October 18, 1999)

II Interim Isolated

IP Intrusion Prevention Completed

IS Interim Stabilized

MT/FIC/ENRAF Manual Tape, Food Instrument Corporation, ENRAF Corporation (surface level measurement devices)

OSD Operating Specifications Document

PI Partial Interim Isolated

SAR Safety Analysis Reports

SHMS Standard Hydrogen Monitoring System

TMACS Tank Monitor and Control System

TPA Hanford Federal Facility Consent and Compliance Order, "Washington State Department of

Ecology, U. S. Environmental Protection Agency, and U. S. Department of Energy," Fourth

Amendment, 1994 (Tri-Party Agreement)

USO Unreviewed Safety Ouestion

Wyden Amendment "Safety Measures for Waste Tanks at Hanford Nuclear Reservation," Section 3137 of the National Defense Authorization Act for Fiscal Year 1991, November 5, 1990, Public Law 101-510.

4. <u>INVENTORY AND STATUS BY TANK - COLUMN VOLUME CALCULATIONS AND DEFINITIONS FOR TABLE E-6 (SINGLE-SHELL TANKS)</u>

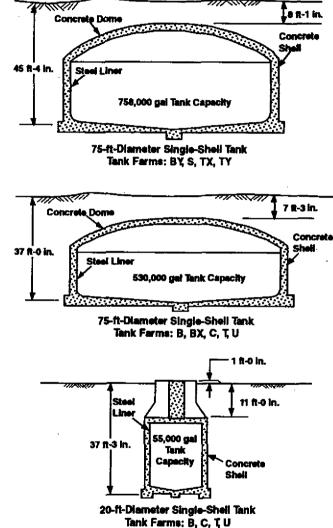
COLUMN HEADING	COLUMN VOLUME CALCULATIONS (Underlined)/DEFINITIONS
Total Waste	Solids volume plus Supernatant liquid. Solids include sludge and saltcake (see definitions below).

COLUMN HEADING	COLUMN VOLUME CALCULATIONS (Underlined)/DEFINITIONS
Supernate (1)	May be either measured or estimated. Supernate is either the estimated or measured liquid floating on the surface of the waste or under a floating solids crust. In-tank photographs or videos are useful in estimating the liquid volumes; liquid floating on solids and core sample data are useful in estimating large liquid pools under a floating crust.
Drainable Interstitial Liquid (DIL) (1)	This is initially calculated. Drainable interstitial liquid is calculated based on the saltcake and sludge volumes, using calculated porosity values from past pumping or actual data for each tank. Interstitial liquid is liquid that fills the interstitial spaces of the solids waste. The sum of the interstitial liquid contained in saltcake and sludge minus an adjustment for capillary height is the initial volume of drainable interstitial liquid.
Pumped This Month	Net total gallons of liquid pumped from the tank during the month. If supernate is present, pump production is first subtracted from the supernatant volume. The remainder is then subtracted from the drainable interstitial liquid volume.
Total Pumped (1)	Cumulative net total gallons of liquid pumped from 1979 to date.
Drainable Liquid Remaining (DLR) (1)	Supernate plus Drainable Interstitial Liquid. The total Drainable Liquid Remaining is the sum of drainable interstitial liquid and supernate.
Pumpable Liquid Remaining (PLR) (1)	Drainable Liquid Remaining minus unpumpable volume. Not all drainable interstitial liquid is pumpable.
Sludge	Solids formed during sodium hydroxide additions to waste. Sludge usually was in the form of suspended solids when the waste was originally received in the tank from the waste generator. In-tank photographs or videos may be used to estimate the volume.
Saltcake	Results from crystallization and precipitation after concentration of liquid waste, usually in an evaporator. If saltcake is layered over sludge, it is only possible to measure total solids volume. In-tank photographs or videos may be used to estimate the saltcake volume.
Solids Volume Update	Indicates the latest update of any change in the solids volume.
Solids Update Source - See Footnote	Indicates the source or basis of the latest solids volume update.
Last In-tank Photo	Date of last in-tank photographs taken.
Last In-tank Video	Date of last in-tank video taken.
See Footnotes for These Changes	Indicates any change made the previous month. A footnote explanation for the change follows the Inventory and Status by Tank Appendix (Table E-6).

(1) As pumping continues, supernate, DIL, DLR, PLR, and total gallons pumped are adjusted accordingly based on actual pump volumes.

APPENDIX D

TANK FARM CONFIGURATION, STATUS, AND FACILITIES CHARTS



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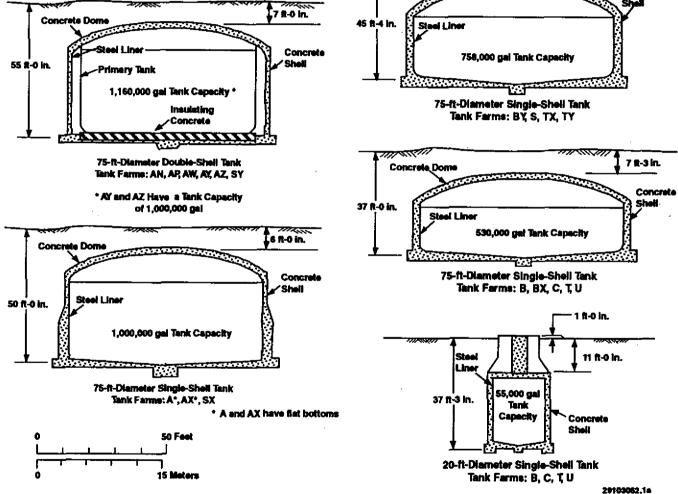


FIGURE D-1. HIGH-LEVEL WASTE TANK CONFIGURATION

FIGURE D-2. DOUBLE-SHELL TANK INSTRUMENTATION CONFIGURATION

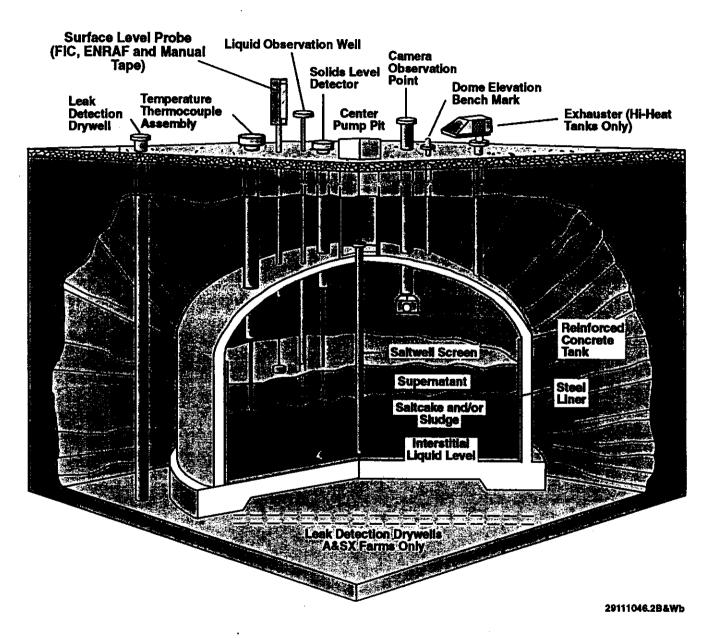
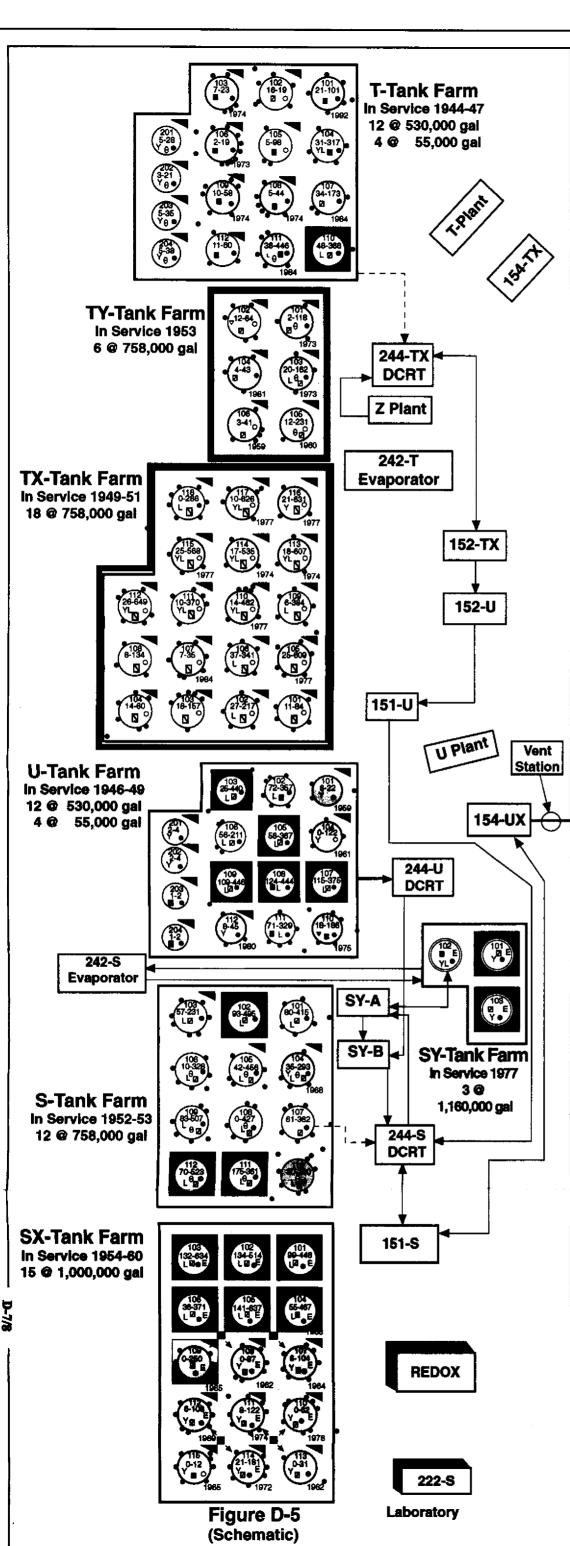


FIGURE D-3. SINGLE-SHELL TANK INSTRUMENTATION CONFIGURATION

(Schematic)

29502008.2C 03/31/00



Controlled, Clean **Cross Site**

Updated Quarterly Issued by River Protection Project

APPENDIX E

MONTHLY SUMMARY
TANK USE SUMMARY
PUMPING RECORD, LIQUID STATUS AND PUMPABLE
LIQUID REMAINING IN TANK FARMS
INVENTORY SUMMARY BY TANK FARM
INVENTORY AND STATUS BY TANK

TABLE E-1. MONTHLY SUMMARY TANK STATUS

March 31, 2000

	200	200	
	EAST AREA	WEST AREA	TOTAL
IN SERVICE	25	03	28 (1)
OUT OF SERVICE	66	83	149
SOUND	59	51	110
ASSUMED LEAKER	32	35	67
INTERIM STABILIZED	60	61	121
ISOLATED			
PARTIAL INTERIM	11	30	41
INTRUSION PREVENTION COMPLETE	55	53	108
CONTROLLED, CLEAN, AND STABLE	12	24	36

		WASTE VO	LUMES (Kgallo	ins)			
		200	200		SST	DST	
		EAST AREA	WEST AREA	TOTAL	TANKS	IANKS	IOTAL
SUPERN	<u>ATANT</u>						
AGING	Aging waste	1672	0	1672	0	1672	1672
CC	Complexent concentrate waste	3180	778	3958	Ō	3958	3958
CP	Concentrated phosphate waste	1089	0	1089	0	1089	1089
DC	Dilute complexed waste	55	0	55	1	54	55
DN	Dilute non-complexed waste	3462	518	3980	0	3980	3980
DN/PD	Dilute non-complex/PUREX TRU solid	321	0	321	0	321	321
DN/PT	Dilute non-complex/PFP TRU solids	0	0	0	0	0	0
NCPLX	Non-complexed waste	192	232	424	424	0	424
DSSF	Double-shell slurry feed	5495	36	5531	939	4592	5531
TOTAL	. SUPERNATANT	15466	1584	17030	1364	15666	17030
SOLIDS					*****************************	·	*************
Sludge	•	6359	6268	12627	11393	1234	12627
Saltca	ske	7359	15961	23320	20869	2451	23320
TOTA	L SOLIDS	13718	22229	35947	32262	3685	35947
Drainable	e Interstital Liquid (DSTs only)(3)	823	212	1035	0	1035	1035
TO	TAL WASTE	30007	24005	54012	33626	19351	54012
AVAILAI	BLE SPACE IN TANKS	9793	1102	10895	0	10895	10895
DRAINA	BLE INTERSTITIAL	2169	2575	4744	3709	1035	4744
DRAINA	BLE LIQUID REMAINING (2)	2442	2635	5077	5077	(2)	5077

⁽¹⁾ Includes six double-shell tanks on Hydrogen Watch List not currently allowed to receive waste, AN-103, AN-104, AN-105, AW-101, SY-101, and SY-103.

⁽²⁾ Drainable Liquid Remaining for single-shell tanks only; not applicable for double-shell tanks

⁽³⁾ Drainable Interstitial Liquid was extracted from DST solids in Table E-5. Total waste for DSTs: Supernate + DIL + Solids.

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TABLE E-2. TANK USE SUMMARY March 31, 2000

	TANKS AVAN ARIE				ISOLATED TAI		
TANK FARMS	TANKS AVAILABLE TO RECEIVE WASTE TRANSERS	SOUND	ASSUMED LEAKER	PARTIAL <u>INTERIM</u>	INTRUSION PREVENTION COMPLETED	CONTROLLED CLEAN, AND STABLE	INTERIM TABILIZED <u>TANKS</u>
A	0	3	3	2	4	0	5
AN	7 (1)	7	0	0	0		0
AP	8	8	0	0	0		0
AW	6 (1)	6	0	0	0		0
AX	0	2	2	1	3		3
AY	2	2	0	0	0		0
AZ	2	2	0	0	0		0
В	0	6	10	0	16		16
BX ·	0	7	5	0	12	12	12
BY	0	7	5	5	7		10
С	0	9	7	3	13		14
	次的 身份的确心 的特殊的,但是是不是一个人的。						
S	0	11	1	10	2		4
SX	0	5	10	6	9		9
SY	3 (1)	3	0	0	0		0
Т	0	9	7	5	11		16
TX	0	10	8	. 0	18	18	18
	0	1	5	0	6	6	6
TY U	0	12	4	9	7		8

(1) Six Double-Shell Tanks on the Hydrogen Tank Watch List are not currently receiving waste transfers (AN-103, 104, 105, AW-101, SY-101 and 103).

TABLE E-3. PUMPING RECORD, LIQUID STATUS AND PUMPABLE LIQUID REMAINING IN TANK FARMS

March 31, 2000

			Waste Vo	olumes (Kgallons)			
TANK	PUMPED	PUMPED FY	CUMULATIVE TOTAL PUMPED	SUPERNATANT	DRAINABLE INTERSTITIAL	DRAINABLE LIQUID	PUMPABLE SST LIQUID
FARMS AST	THIS MONTH	=	1979 TO DATE	LIQUID	REMAINING	REMAINING	REMAINING
4	0.0	0.0	150.5	517	145	662	635
AN	N/A	N/A	N/A	3686	437	N/A	N/A
AP	N/A	N/A	N/A	5518	22	N/A	N/A
AW	N/A	N/A	N/A	3049	297	N/A	N/A
AX	0.0	0.0	13.0	386	89	475	455
AY	N/A	N/A	N/A	445	47	N/A	N/A
ΑZ	N/A	N/A	N/A	1672	20	N/A	N/A
В	0.0	0.0	0.0	15	262	277	203
BX	N/A	0.0	200.2	24	127	N/A	N/A
BY	0.0	0.0	1567.8	0	558	558	498
C	0.0	0.0	103.0	154	165	319	268
Total	0.0	0.0	2034.5	15466	2169	2291	2059
VEST							
S	7.5	30.0	1037.7	141	595	736	701
SX	0.0	14.5	378.8	0	638	638	563
SY	N/A	N/A	N/A	1296	212	N/A	N/A
T	0.0	0.0	245.7	29	217	246	168
TX	N/A	0.0	1205.7	9	285	N/A	N/A
TY	N/A	0.0	29.9	0	53	N/A	N/A
U	31.9	185.8	197.8	89	575	668	638
Total	39.4	230,3	3095.6	1584	257E	2208	2070
TOTAL	39.4	230.3	51 3 0.†	17030	5744	4579	4129

N/A = Not applicable for Double-Shell Tank Farms, and Single-Shell Tank Farms which have been declared Controlled, Clean and Stable (BX, TX, TY).

TABLE E-4. INVENTORY SUMMARY BY TANK FARM March 31, 2000

		<u></u>	1:		<u>SUPERN.</u>	<u>ATAN1</u>	<u>LIQUI</u>	D VOL	<u>UMES</u>	(Kgallo	ns)	·	SOLID	S VOLUI	ME
TANK	TOTAL	AVAIL	1											SALT	
<u>FARM</u>	WASTE	_SPACE	AGING	22	<u>CP</u>	DC	DN	DN/PD	<u>DN/PT</u>	NCPLX	DSSE	LATOTAL	SLUDGE	_CAKE	TOTAL
EAST															
A	1507	0	0	0	0	0	0	0	0	0	517	517	588	402	990
AN	5434	2546	0	1786	0	0	160	0	0	0	1740	3686	۰ ا	1311	1311
AP	5607	3513	0	1394	1089	0	1045	0	0	0	1990	5518	0	67	67
AW	4465	2375	0	0	0	0	1866	321	0	0	862	3049	485	634	1119
AX	834	0	0	0	0	0	0	0	0	0	386	386	26	422	448
AY	755	1205	0	0	0	54	391	0	0	0	0	445	264	0	264
AZ ·	1806	154	1672	0	0	0	0	0	0	0	0	1672	114	0	114
B	1909	0	0	0	0	0	0	0	0	15	0	15	1211	683	1894
BX	1490	0	0	0	0	Ö	0	0	0	. 24	0	24	1259	207	1466
BY	4387	0	0	0	0	0	0	0	0	0	0		754	3633	4387
C	1812	0	0	0	0	1	0	0	0	153	0	154	1658	0	1658
Total	1,000	67,83	1872	3180	1/45	88	9482	521	0	792	E45E	18468		7,853	1974
WEST															
S	4934	0	0	0	0	0	0	0	0	138	3	141	1185	3608	4793
SX	4028	0	0	0	0	0	0	0	0	0	0	٥	1064	2964	4028
SY	2318	1102	0	778	0	0	518	0	0	0	0	1296	371	439	810
Т	1877	0	0	0	0	0	0	0	0	29	0	29	1703	145	1848
TX	6764	0	0	0	0	0	0	0	0	9	0	9	880	5875	6755
TY	639	0	0	0	0	0	0	0	0	0	0		529	110	639
U	3445	0	0	0	0	0	0	0	0	56	33	89	536	2820	3356
Total	7,6025	1102	Ğ	771	Ö	ă	518	٩	•	237	3:5	1584	6288	15061	2222
TOTAL				3858					***************************************	*******************	************			************	
			16772		1060						65.51	70.00	12527	2353	3564

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TABLE E-5. INVENTORY AND STATUS BY TANK - DOUBLE SHELL-TANKS

March 31, 2000

LENT TOTAL AVAIL. NATANT STITIAL SALT LIQUID SOLIDS SOLIDS LAST LAST FOR WAST TANK TANK WASTE WASTE SPACE LIQUID LIQUID SLUDGE CAKE VOLUME VOLUME IN-TANK IN-TANK THESE			TANK S	TATUS				LIQUID V	DLUME	SOLIDS	VOLUME	VOLUM	E DETERM	INATION	PHOTOS	VIDEOS	
Lent									DRAINABLE	(DIL remo	ved from						SEE
WAST TANK MATE WASTE WASTE SPACE LIQUID Equal SLUDGE CAKE VOLUME VOLUME PHOTO VIDEO OLAN					EQUIVA-			SUPER-	INTER-	solids v	olumes)						FOOTNOT
TANK MATL NTEGRITY USE NCHES Kgall Kgall Kgall Kgall Kgall Kgall Kgall METHOD METHOD UPDATE PHOTO VIDEO CHAM					LENT	TOTAL	AVAIL.	NATANT	STITIAL		SALT	LIQUID	SOLIDS	SOLIDS	LAST	LAST	FOR
AN-101 DN SOUND DRCVR 58.2 160 980 160 0 0 0 FM S 04/30/99 0/ 0/ 0 AN-102 CC SOUND CWHT 383.6 1066 65 986 22 0 67 FM S 04/30/99 0/ 0/ 0 AN-103 DRS SOUND CWHT 383.6 1066 65 986 22 0 67 FM S 04/30/99 0/ 0/ 0 AN-103 DRS SOUND CWHT 382.6 1053 87 604 112 0 337 FM S 04/30/99 10/29/87 AN-106 DRSF SOUND CWHT 408.5 1126 14 697 122 0 397 FM S 04/30/99 0/12/8/8 AN-106 CC SOUND CWHT 14.5 40 1100 23 4 0 13 FM S 04/30/99 0/ 0/ 0 AN-107 CC SOUND CWHT 14.5 40 1100 23 4 0 13 FM S 04/30/99 0/ 0/ 0 AN-107 CC SOUND CWHT 378.6 1044 96 797 62 0 185 FM S 04/30/99 0/0/ 0 AN-107 CC SOUND CWHT 378.6 1044 96 797 62 0 185 FM S 04/30/99 08/01/86 AN-107 CC SOUND CWHT 378.6 1044 96 797 62 0 185 FM S 04/30/99 08/01/86 AN-107 CC SOUND CWHT 378.6 1044 96 797 62 0 185 FM S 04/30/99 08/01/86 AN-107 CC SOUND CWHT 378.6 1044 96 797 62 0 185 FM S 06/30/99 08/01/86 AN-107 CC SOUND CWHT 378.6 1044 96 797 62 0 185 FM S 06/30/99 08/01/86 AN-107 CC SOUND CWHT 378.6 1044 96 797 62 0 185 FM S 06/30/99 08/01/86 AN-107 CC SOUND CWHT 378.6 1044 96 797 62 0 185 FM S 06/30/99 08/01/86 AN-107 CC SOUND CWHT 378.6 1044 96 11 1089 0 0 0 FM S 05/01/89 0/ 0/ 0 AR-108 DSF SOUND CWHT 381.3 96 174 677 22 0 67 FM S 05/01/89 0/ 0/ 0 AR-108 DSF SOUND CWHT 361.3 966 174 677 22 0 67 FM S 00/30/99 0/ 0/ 0 AR-108 DSF SOUND CWHT 361.3 966 174 677 22 0 67 FM S 00/30/99 0/ 0/ 0 AR-108 DSF SOUND CWHT 361.3 96 174 677 22 0 67 FM S 00/30/99 0/ 0/ 0 AR-108 DSF SOUND CWHT 361.3 96 174 677 22 0 67 FM S 00/30/99 0/ 0/ 0 AR-108 DSF SOUND CWHT 381.3 98 1102 38 0 0 0 FM S 10/13/86 0/ 0/ 0 0 AR-108 DSF SOUND CWHT 381.8 38 1102 38 0 0 0 FM S 10/13/86 0/ 0/ 0 0 AR-108 DSF SOUND CWHT 381.8 38 1102 38 0 0 0 FM S 10/13/86 0/ 0/ 0 0 AR-108 DSF SOUND CWHT 381.8 38 1102 38 0 0 0 FM S 10/13/86 0/ 0/ 0 0 O FM S 10/13/86 0/ 0/ 0/ 0 AR-108 DSF SOUND CWHT 381.8 381 1769 381 581 0 0 0 0 FM S 10/13/86 0/ 0/ 0/ 0 O O FM S 10/13/86 0/ 0/ 0/ 0 O FM S 10/13/86 0/ 0/ 0/ 0 O FM S 10/13/86 0/ 0/ 0/ 0 O FM S 10/13/86 0/ 0/ 0/ 0 O FM S 10/13/86 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/		WAST	TANK	TANK	WASTE	WASTE	SPACE	LIQUID	LIQUID	SLUDGE	CAKE	VOLUME	VOLUME	VOLUME	IN-TANK	IN-TANK	THESE
AN-101 DN SOUND DRCVR 58.2 160 980 100 0 0 FM S 06/30/89 0/ 0/ 0 AN-102 CC SOUND CWHT 383.6 1056 86 986 22 0 67 FM S 06/30/89 0/ 0/ 0 AN-103 DS SOUND CWHT 382.8 1053 87 604 114 0 343 FM S 06/30/99 10/28/97 AN-104 DSSF SOUND CWHT 382.9 1063 87 604 112 0 337 FM S 06/30/99 0//28/98 AN-105 DSSF SOUND CWHT 409.5 1126 14 637 122 0 387 FM S 06/30/99 0//28/98 AN-106 DSSF SOUND CWHT 409.5 1126 14 637 122 0 387 FM S 06/30/99 0//28/98 AN-107 CC SOUND CWHT 14.5 40 1100 23 4 0 13 FM S 06/30/99 0//28/98 AN-107 CC SOUND CWHT 378.6 1044 96 787 62 0 186 FM S 06/30/99 08/01/88 AP-101 DSSF SOUND DRCVR 404.7 1113 27 1113 0 0 0 FM S 06/30/99 08/01/88 AP-102 CP SOUND BRTFD 396.0 1099 51 1099 0 0 0 FM S 07/11/89 0/ 0/ 0 AP-103 CC SOUND DRCVR 404.0 1111 29 1111 0 0 0 FM S 06/31/99 0/ 0/ 0 AP-103 CC SOUND DRCVR 404.0 1111 29 1111 0 0 0 FM S 06/31/99 0/ 0/ 0 AP-105 DSSF SOUND CWHT 513 986 174 877 22 0 67 FM S 06/30/99 0/ 0/ 0 0/ 0 AP-105 DSSF SOUND DRCVR 13.8 82 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 0 0//27/95 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-106 DN SOUND DRCVR 15.5 381 5518 22 0 67	TANK	MATL	INTEGRITY	USE	INCHES	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	METHOD	METHOD	UPDATE	PHOTO	VIDEO	CHANGE
AN-101 DN SOUND DRCVR 58.2 160 980 100 0 0 FM S 06/30/89 0/ 0/ 0 AN-102 CC SOUND CWHT 383.6 1056 86 986 22 0 67 FM S 06/30/89 0/ 0/ 0 AN-103 DS SOUND CWHT 382.8 1053 87 604 114 0 343 FM S 06/30/99 10/28/97 AN-104 DSSF SOUND CWHT 382.9 1063 87 604 112 0 337 FM S 06/30/99 0//28/98 AN-105 DSSF SOUND CWHT 409.5 1126 14 637 122 0 387 FM S 06/30/99 0//28/98 AN-106 DSSF SOUND CWHT 409.5 1126 14 637 122 0 387 FM S 06/30/99 0//28/98 AN-107 CC SOUND CWHT 14.5 40 1100 23 4 0 13 FM S 06/30/99 0//28/98 AN-107 CC SOUND CWHT 378.6 1044 96 787 62 0 186 FM S 06/30/99 08/01/88 AP-101 DSSF SOUND DRCVR 404.7 1113 27 1113 0 0 0 FM S 06/30/99 08/01/88 AP-102 CP SOUND BRTFD 396.0 1099 51 1099 0 0 0 FM S 07/11/89 0/ 0/ 0 AP-103 CC SOUND DRCVR 404.0 1111 29 1111 0 0 0 FM S 06/31/99 0/ 0/ 0 AP-103 CC SOUND DRCVR 404.0 1111 29 1111 0 0 0 FM S 06/31/99 0/ 0/ 0 AP-105 DSSF SOUND CWHT 513 986 174 877 22 0 67 FM S 06/30/99 0/ 0/ 0 0/ 0 AP-105 DSSF SOUND DRCVR 13.8 82 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 0 0//27/95 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-106 DN SOUND DRCVR 15.5 381 5518 22 0 67																	
AN-102 CC SOUND CWHT 383.8 1065 86 908 22 0 67 FM S 06/30/99 0/ 0/ 0 AN-103 DRS SOUND CWHT 347.6 956 184 499 114 0 343 FM S 06/30/99 10/28/97 AN-104 DSSF SOUND CWHT 408.5 1126 14 637 122 0 367 FM S 06/30/99 0/1/26/98 AN-105 DSSF SOUND CWHT 408.5 1126 14 637 122 0 367 FM S 06/30/99 0/1/26/98 AN-105 DSSF SOUND CWHT 14.5 40 1100 23 4 0 13 FM S 06/30/99 0/1/26/98 AN-105 CC SOUND CWHT 378.6 1044 96 797 62 0 165 FM S 06/30/99 0/1/26/98 AN-105 CC SOUND CWHT 378.6 1044 96 797 62 0 155 FM S 06/30/99 0/1/26/98 AP-105 DSSF SOUND DRCVR 404.7 1113 27 1113 0 0 0 FM S 06/30/99 0/1/26/98 AP-102 CP SOUND GRITD 386.0 1069 51 1069 0 0 FM S 07/11/69 0/ 0/ 0 AP-103 CC 7AI. SOUND DRCVR 102.9 283 867 283 0 0 0 FM S 06/31/89 0/ 0/ 0 AP-105 CC SOUND GRITD 404.0 1111 29 1111 0 0 0 FM S 06/31/89 0/ 0/ 0 AP-105 DSSF SOUND CWHT 351.3 986 174 677 22 0 67 FM S 06/31/89 0/ 0/ 0 AP-105 DSSF SOUND DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-106 DN SOUND DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-106 DN SOUND DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-106 DN SOUND DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-107 DN SOUND DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-108 DN SOUND DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-108 DN SOUND DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-108 DN SOUND DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-108 DN SOUND DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/89 0/ 0/ 0 AP-108 DN SOUND DRCVR 156.3 427 713 172 38 886 58 0 173 FM S 06/30/99 0/2/02/83 AW-103 DN/PD SOUND DRCVR 156.3 427 713 172 38 886 58 0 175 FM S 06/30/99 0/2/02/83 AW-104 DN SOUND DRCVR 156.3 427 713 172 38 886 58 0 175 FM S 06/30/99 0/2/02/83 AW-105 DN/PD SOUND DRCVR 156.3 427 713 172 38 886 58 0 175 FM S 06/30/99 0/2/02/83 AW-106 DN/PD SOUND DRCVR 156.3 427 713 172 38 886 58 0 175 FM S 06/30/99 0/2/02/83 AW-106 DN/PD SOUND DRCVR 156.3 427 713 172 38 886 58 0 175 FM S 06/30/99 0/2/02/83								· V	I TANK FA	<u>RM STATU</u>	<u>18</u>				1		
AN-103 D8S SOUND CWHT 347.6 956 184 499 114 0 343 FM S 06/30/99 10/29/87 AN-104 D8SF SOUND CWHT 382.9 1063 87 604 112 0 337 FM S 06/30/99 07/29/87 AN-104 D8SF SOUND CWHT 40.5 1126 14 837 122 0 367 FM S 06/30/99 07/29/88 AN-105 D8SF SOUND CWHT 14.5 40 1100 23 4 0 13 FM S 06/30/99 07/20/20 AN-107 CC SOUND CWHT 379.6 1044 90 797 62 0 185 FM S 06/30/99 07/20/20 AN-107 CC SOUND CWHT 379.6 1044 90 797 62 0 185 FM S 06/30/99 09/01/88 AP-101 D8SF SOUND DRCVR 404.7 1113 27 1113 0 0 0 FM S 06/30/99 09/01/88 AP-101 D8SF SOUND DRCVR 404.7 1113 27 1113 0 0 0 FM S 06/30/99 09/01/89 AP-104 CC SOUND GRITD 386.0 1099 51 1099 0 0 0 FM S 06/31/19/89 07/20 AP-104 CC SOUND GRITD 404.0 1111 29 1111 0 0 0 FM S 06/31/89 07/20 AP-104 CC SOUND GRITD 404.0 1111 29 1111 0 0 0 FM S 10/13/89 07/20 AP-104 DRCVR 13.8 38 1102 38 80 0 0 FM S 10/13/89 07/20 AP-105 DSSF SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 07/20 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 07/20 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 07/20 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 07/20 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 07/20 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 07/20 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 07/20 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 07/20 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 0 FM S 10/13/89 07/20 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 0 FM S 10/13/89 07/20 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 0 FM S 10/13/89 07/20 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 0 FM S 10/13/89 07/20 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 0 FM S 10/13/89 07/20 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 0 FM S 10/13/89 07/20 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 0 FM S 10/13/89 07/20 AP-106 DN SOUND DRCVR 15.3 38 1102 38 0 0 0 0 FM S 10/13/89 07/20 AP-106 DN SOUND DRCVR 15.5 38 1102 38 0 0 0 0 FM S 10/13/89 07/20 AP-106 DN SOUND DRCVR 15.5 38 1102 38 1102 38 1102 38 1102 38 1102 38 1102 38 1102 38 1102 38 1102 3	AN-101	DN	SOUND	DRCVR	58.2	160	980	160	0	0	0	FM	S	06/30/99	0/ 0/ 0		
AN-104 DSSF SOUND CWHT 382.9 1053 87 604 112 0 337 FM S 06/30/99 08/15/88 AN-105 DSSF SOUND CWHT 409.5 1126 14 837 122 0 367 FM S 06/30/99 01/26/88 AN-106 CC SOUND CWHT 14.5 40 1100 23 4 0 13 FM S 06/30/99 09/01/88 AN-107 CC SOUND CWHT 379.6 1044 86 797 82 0 185 FM S 06/30/99 09/01/88 AN-107 CC SOUND CWHT 379.6 1044 86 797 82 0 185 FM S 06/30/99 09/01/88 AN-107 CC SOUND CWHT 379.6 1044 86 797 82 0 185 FM S 06/30/99 09/01/88 AN-107 CC SOUND CWHT 379.6 1044 86 797 82 0 185 FM S 06/30/99 09/01/88 AN-102 CC P SOUND GRITD 386.0 1098 51 1089 0 0 0 FM S 07/11/89 0/ 0/ 0 AN-103 CC P SOUND GRITD 386.0 1098 57 283 0 0 0 FM S 07/11/89 0/ 0/ 0 AN-103 CC P SOUND GRITD 404.0 1111 28 1111 0 0 0 0 FM S 06/31/98 0/ 0/ 0 AN-104 CC SOUND GRITD 404.0 1111 28 1111 0 0 0 0 FM S 10/13/89 0/ 0/ 0 AN-104 CC SOUND GRITD 404.0 1111 28 1111 0 0 0 0 FM S 10/13/89 0/ 0/ 0 AN-105 DSF SOUND DRCVR 138.1 38 102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AN-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AN-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AR-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/89 0/ 0/ 0 AR-106 DN SOUND DRCVR 13.8 5607 3513 5518 22 0 67 FM S 06/30/99 03/17/88 AW-102 DN SOUND DRCVR 13.8 5607 3513 5518 22 0 67 FM S 06/30/99 03/17/88 AW-102 DN SOUND DRCVR 168.2 512 628 149 59 269 35 FM S 06/30/99 03/17/88 AW-102 DN SOUND DRCVR 168.2 512 628 149 59 269 35 FM S 06/30/99 03/17/88 AW-102 DN SOUND DRCVR 168.2 512 628 149 59 269 35 FM S 06/30/99 03/10/ 0 AW-104 DN SOUND DRCVR 168.3 427 713 172 38 277 0 FM S 06/30/99 02/02/83 AW-105 DN/PD SOUND DRCVR 165.3 427 713 172 38 277 0 FM S 06/30/99 02/02/83 AW-105 DN/PD SOUND DRCVR 165.3 427 713 172 38 277 0 FM S 06/30/99 02/02/83 AW-105 DN/PD SOUND DRCVR 165.3 427 713 172 38 277 0 FM S 06/30/99 02/02/83 AW-105 DN/PD SOUND DRCVR 165.3 427 713 172 38 277 0 FM S 06/30/99 02/02/83	AN-102	CC	SOUND	CWHT	363.6	1055	86	966	22	0	67	FM	S	06/30/99	0/ 0/ 0		
AN-106 DSSF SOUND CWHIT 14.5 40 1100 23 4 0 13 FM S 06/30/99 01/28/98 AN-106 CC SOUND CWHIT 14.5 40 1100 23 4 0 13 FM S 06/30/99 0/0/0 AN-107 CC SOUND CWHIT 379.6 1044 96 797 62 0 186 FM S 06/30/99 0/0/0 AN-107 CC SOUND CWHIT 379.6 1044 96 797 62 0 186 FM S 06/30/99 0/0/0 AN-107 CC SOUND CWHIT 379.6 1044 96 797 62 0 186 FM S 06/30/99 0/0/0 AN-101 DSSF SOUND DRCVR 404.7 1113 27 1113 0 0 0 FM S 07/11/89 0/0/0 AP-102 CP SOUND GRITFD 396.0 1069 51 1069 0 0 0 FM S 07/11/89 0/0/0 AP-103 CC FM SOUND DRCVR 102.9 283 667 283 0 0 0 FM S 06/31/98 0/0/0 AP-104 CC SOUND GRITFD 404.0 1111 29 1111 0 0 0 0 FM S 06/31/98 0/0/0 AP-106 DN SOUND DRCVR 102.9 283 667 283 0 0 0 FM S 10/13/98 0/0/0 AP-106 DN SOUND DRCVR 102.9 283 667 283 0 0 0 FM S 10/13/98 0/0/0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/98 0/0/0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/98 0/0/0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/98 0/0/0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/98 0/0/0 AP-106 DN SOUND DRCVR 13.8 581 1769 381 0 0 0 FM S 10/13/98 0/0/0 AP-106 DN SOUND DRCVR 13.8 580 1106 124 980 9 0 0 27 FM S 06/30/99 0/0/0 AP-106 DN SOUND DRCVR 18.6 580 1016 124 980 9 0 0 27 FM S 06/30/99 0/0/0 AW-104 DN SOUND DRCVR 18.2 512 628 149 59 268 35 FM S 06/30/99 0/0/0 AW-104 DN SOUND DRCVR 18.2 512 628 149 59 268 35 FM S 06/30/99 0/0/0 AW-104 DN SOUND DRCVR 15.3 427 713 172 38 217 0 FM S 06/30/99 0/0/0 AW-104 DN SOUND DRCVR 15.3 427 713 172 38 217 0 FM S 06/30/99 0/0/0 AW-104 DN SOUND DRCVR 15.3 427 713 172 38 217 0 FM S 06/30/99 0/0/0 AW-104 DN SOUND DRCVR 15.3 427 713 172 38 217 0 FM S 06/30/99 0/0/0 AW-104 DN SOUND DRCVR 15.3 427 713 172 38 217 0 FM S 06/30/99 0/0/0 BAW-104 DNSOUND DRCVR 15.3 427 713 172 38 217 0 FM S 06/30/99 0/0/0 BAW-104 DNSOUND DRCVR 15.3 427 713 172 38 217 0 FM S 06/30/99 0/0/0 BAW-104 DNSOUND DRCVR 15.3 427 713 172 38 217 0 FM S 06/30/99 0/0/0 BAW-104 DNSOUND DRCVR 15.3 427 713 172 38 217 0 FM S 06/30/99 0/0/0 BAW-104 DNSOUND DRCVR 15.5 268 872 43 56 0 169 FM S 06/30/99 0/0/0 BAW-104 DNS	AN-103	DSS	SOUND	CWHT	347.6	956	184	499	114	0	343	FM	S	06/30/99	10/29/87		
AN-106 CC SOUND CWHT 14.5 40 1100 23 4 0 13 FM S 06/30/99 09/01/98 7 DOUBLE-SHELL TANKS TOTALS 5434 2546 3686 437 0 1311 AP-101 DSSF SOUND DRCVR 404.7 1113 27 1113 0 0 0 FM S 05/01/89 0/ 0/ 0 0 AP-103 CC ALL SOUND DRCVR 102.9 283 857 283 0 0 0 FM S 05/31/96 0/ 0/ 0 AP-103 CC SOUND GRITED 404.0 1111 29 1111 0 0 0 FM S 06/31/96 0/ 0/ 0 AP-105 DSSF SOUND CWHT 351.3 966 174 677 22 0 67 FM S 06/30/99 0/ 0/ 0 0/ 0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-106 DN SOUND DRCVR 13.8.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-106 DN SOUND DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-106 DN SOUND DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-106 DN SOUND DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-106 DN SOUND DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-106 DN SOUND DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-106 DN SOUND DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-106 DN SOUND DRCVR 138.5 381 759 381 0 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-106 DN SOUND DRCVR 138.5 381 759 381 0 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-106 DN SOUND DRCVR 138.5 381 759 381 0 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-106 DN SOUND DRCVR 158.5 381 759 381 0 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-106 DN SOUND DRCVR 158.5 381 759 381 0 0 0 0 FM S 10/13/88 0/ 0/ 0 DRCVR 158.5 381 759 381 0 0 0 0 FM S 06/30/99 0/ 0/ 0 AP-106 DN SOUND DRCVR 166.2 512 626 149 59 269 35 FM S 06/30/99 0/ 0/ 0 AP-106 DN/PD SOUND DRCVR 166.3 427 713 172 38 217 0 FM S 06/30/99 0/ 0/ 0/ 0 AW-106 DN/PD SOUND DRCVR 165.3 427 713 172 38 217 0 FM S 06/30/99 0/ 0/ 0/ 0 AW-106 DNSCVR 97.5 268 872 43 566 0 169 FM S 06/30/99 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/ 0/	AN-104	DSSF	SOUND	CWHT	382.9	1053	87	604	112	0	337	FM	S	06/30/99	08/19/88		
AN-107 CC SOUND CWHT 379.6 1044 96 797 62 0 186 FM S 06/30/99 09/01/86 7 DOUBLE-SHELL TANKS TOTALS 5434 2540 3686 437 0 1311 AP TANK FARM STATUS AP-101 DSSF SOUND DRCVR 404.7 1113 27 1113 0 0 0 FM S 05/01/89 0/ 0/ 0 0 AP-102 CP SOUND DRCVR 102.9 283 657 283 0 0 0 FM S 05/11/89 0/ 0/ 0 AP-104 CC SOUND DRCVR 102.9 283 657 283 0 0 0 FM S 05/31/86 0/ 0/ 0 AP-104 CC SOUND DRCVR 102.9 283 667 283 0 0 0 FM S 05/31/86 0/ 0/ 0 AP-104 CC SOUND DRCVR 102.9 283 667 283 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-105 DSSF SOUND DRCVR 1361.3 986 174 677 22 0 67 FM S 06/30/99 0/ 0/ 0 09/27/95 AP-106 DN SOUND DRCVR 227.6 626 514 626 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-107 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8 5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 DRCVR 138.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 DRCVR 138.5 381 759 381 0 FM S 06/30/99 02/02/83 AW-103 DN/PD SOUND DRCVR 166.2 512 628 149 59 268 35 FM S 06/30/99 02/02/83 AW-104 DN SOUND DRCVR 166.2 512 628 149 59 268 35 FM S 06/30/99 02/02/83 AW-105 DN/PD SOUND DRCVR 165.3 427 713 172 38 217 0 FM S 06/30/99 02/02/83 AW-105 DN/PD SOUND DRCVR 155.3 427 713 172 38 217 0 FM S 06/30/99 02/02/83 AW-106 DSSF SOUND SRCVR 97.5 268 872 43 56 0 169 FM S 06/30/99 02/02/83	AN-105	DSSF	SOUND	CWHT	409.5	1126	14	637	122	0	367	FM	S	06/30/99	01/26/86		
AP-101 DSSF SOUND DRCVR 404.7 1113 27 1113 0 0 0 FM S 05/01/09 0/ 0/ 0 AP-102 CP SOUND DRCVR 102.9 283 867 283 0 0 0 FM S 05/01/09 0/ 0/ 0 AP-103 CC M. SOUND DRCVR 102.9 283 867 283 0 0 0 FM S 05/31/09 0/ 0/ 0 AP-104 CC SOUND BRTPD 404.0 1111 29 1111 0 0 0 FM S 10/13/09 0/ 0/ 0 AP-105 DSSF SOUND DRCVR 102.9 283 867 283 0 0 0 FM S 05/31/09 0/ 0/ 0 AP-106 DSSF SOUND DRCVR 102.9 283 867 283 0 0 0 FM S 10/13/09 0/ 0/ 0 AP-106 DSSF SOUND DRCVR 13.8 386 174 877 22 0 67 FM S 06/30/09 0/ 0/ 0 09/27/95 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/08 0/ 0/ 0 AP-107 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/08 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/08 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/08 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/08 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/08 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/08 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/08 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8 5 381 759 381 0 0 0 FM S 10/13/08 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8 5 381 759 381 0 0 0 FM S 10/13/08 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8 5 381 759 381 0 0 0 FM S 10/13/08 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8 5 10/13/08 10/13/08 0/ 0/ 0 FM S 10/13/08 0/ 0/ 0 AP-108 DN SOUND DRCVR 18.2 512 628 149 59 269 35 FM S 06/30/09 02/02/03 AW-103 DN/PD SOUND DRCVR 186.2 512 628 149 59 269 35 FM S 06/30/09 02/02/03 AW-104 DN SOUND DRCVR 165.3 427 713 172 38 217 0 FM S 06/30/09 02/02/03 AW-105 DNSF SOUND SRCVR 165.3 427 713 172 38 217 0 FM S 06/30/09 02/02/03	AN-100	CC	SOUND	CWHT	. 14.5	40	1100	23	4	0	13	FM	S	06/30/99	0/ 0/ 0		
AP-101 DSSF SOUND DRCVR 404.7 1113 27 1113 0 0 0 FM S 05/01/89 0/ 0/ 0 AP-102 CP SOUND BRCVR 102.9 283 857 283 0 0 0 FM S 05/31/89 0/ 0/ 0 AP-104 CC SOUND DRCVR 102.9 283 857 283 0 0 0 FM S 05/31/89 0/ 0/ 0 AP-104 CC SOUND DRCVR 102.9 283 857 283 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-104 CC SOUND DRCVR 102.9 283 857 283 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-104 CC SOUND DRCVR 213.3 968 174 877 22 0 67 FM S 06/30/89 0/ 0/ 0 09/27/95 AP-106 DN SOUND DRCVR 227.6 626 514 626 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8.5 381 1759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8.5 381 759 381 0 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8.5 381 759 381 0 0 0 0 FM S 10/13/88 0/ 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8.5 381 759 381 5518 22 0 67	AN-107	CC	SOUND	CWHT	37 9 .6	1044	96	797	62	0	185	FM	\$	06/30/99	09/01/86		
AP-101 DSSF SOUND DRCVR 404.7 1113 27 1113 0 0 0 FM S 05/01/89 0/ 0/ 0 AP-102 CP SOUND BRCVR 102.9 283 857 283 0 0 0 FM S 05/31/89 0/ 0/ 0 AP-104 CC SOUND DRCVR 102.9 283 857 283 0 0 0 FM S 05/31/89 0/ 0/ 0 AP-104 CC SOUND DRCVR 102.9 283 857 283 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-104 CC SOUND DRCVR 102.9 283 857 283 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-104 CC SOUND DRCVR 213.3 968 174 877 22 0 67 FM S 06/30/89 0/ 0/ 0 09/27/95 AP-106 DN SOUND DRCVR 227.6 626 514 626 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-106 DN SOUND DRCVR 13.8 38 1102 38 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8.5 381 1759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8.5 381 759 381 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8.5 381 759 381 0 0 0 0 FM S 10/13/88 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8.5 381 759 381 0 0 0 0 FM S 10/13/88 0/ 0/ 0/ 0 AP-108 DN SOUND DRCVR 13.8.5 381 759 381 5518 22 0 67	3.00		. 744		T07410	5444			407		4444	ļ	 				
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AP-106 DN SOUND DRCVR 138.5 381 769 381 0 0 0 FM S 10/13/88 0/ 0/ 0 8 DOUBLE-SHELL TANKS TOTALS 5807 3513 5518 22 0 67									•	-	_		_				1
AW-101 DSSF SOUND CWHT 409.1 1125 15 819 77 0 230 FM S 06/30/99 03/17/88 AW-102 DN SOUND EVFD 369.5 1016 124 980 9 0 27 FM S 06/30/99 02/02/83 AW-103 DN/PD SOUND DRCVR 186.2 512 628 149 59 269 35 FM S 06/30/99 02/02/83 AW-104 DN SOUND DRCVR 406.2 1117 23 886 58 0 173 FM S 06/30/99 02/02/83 AW-105 DN/PD SOUND DRCVR 406.2 1117 23 886 58 0 173 FM S 06/30/99 02/02/83 AW-105 DN/PD SOUND DRCVR 155.3 427 713 172 38 217 0 FM S 06/30/99 0/ 0/ 0 AW-106 DSSF SOUND SRCVR 97.5 268 872 43 56 0 169 FM S 06/30/99 02/02/83								I .	*	_	_						
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AW-101 DSSF SOUND CWHT 409.1 1125 15 819 77 0 230 FM S 06/30/99 03/17/88 AW-102 DN SOUND EVFD 369.5 1016 124 980 9 0 27 FM S 06/30/99 02/02/83 AW-103 DN/PD SOUND DRCVR 186.2 512 628 149 59 269 35 FM S 06/30/99 0/ 0/ 0 AW-104 DN SOUND DRCVR 406.2 1117 23 888 58 0 173 FM S 06/30/99 02/02/83 AW-105 DN/PD SOUND DRCVR 155.3 427 713 172 38 217 0 FM S 06/30/99 0/ 0/ 0 AW-106 DSSF SOUND SRCVR 97.5 268 872 43 56 0 169 FM S 06/30/99 02/02/83	6 DOU	SLE-SHEL	L TANKS		TOTALS	5607	3513	5518	22	0	67						
AW-101 DSSF SOUND CWHT 409.1 1125 15 819 77 0 230 FM S 06/30/99 03/17/88 AW-102 DN SOUND EVFD 369.5 1016 124 980 9 0 27 FM S 06/30/99 02/02/83 AW-103 DN/PD SOUND DRCVR 186.2 512 628 149 59 269 35 FM S 06/30/99 0/ 0/ 0 AW-104 DN SOUND DRCVR 406.2 1117 23 888 58 0 173 FM S 06/30/99 02/02/83 AW-105 DN/PD SOUND DRCVR 155.3 427 713 172 38 217 0 FM S 06/30/99 0/ 0/ 0 AW-106 DSSF SOUND SRCVR 97.5 268 872 43 56 0 169 FM S 06/30/99 02/02/83													-				-
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AW-104 DN SOUND DRCVR 406.2 1117 23 888 58 0 173 FM S 06/30/99 02/02/83 AW-105 DN/PD SOUND DRCVR 155.3 427 713 172 38 217 0 FM S 06/30/99 0/ 0/ 0 AW-106 DSSF SOUND SRCVR 97.5 268 872 43 56 0 169 FM S 06/30/99 02/02/83	AW-10	2 DN	SOUND	EVFD	369.5	1016	124	980	9	0	27	FM	S	06/30/99	02/02/83		1
AW-106 DN/PD SOUND DRCVR 155.3 427 713 172 38 217 0 FM S 06/30/99 0/ 0/ 0 AW-106 DSSF SOUND SRCVR 97.5 268 872 43 56 0 169 FM S 06/30/99 02/02/83	AW-10	3 DN/PD	SOUND	DRCVR	186.2	512	626	149	59	269	36	FM	S	06/30/99	0/0/0		1
AW-106 DSSF SOUND SRCVR 97.5 268 872 43 56 0 169 FM S 06/30/99 02/02/83	AW-10	4 DN	SOUND	DRCVR	406.2	1117	23	686	58	0	173	FM	S	06/30/99	02/02/83		
	AW-10	5 DN/PD	SOUND	DRCVR	155.3	427	713	172	38	217	0	FM	S	06/30/99	0/ 0/ 0		
8 DOUBLE CHELL TANKS TOTALS 4485 2275 2049 207 495 824	AW-10	6 DSSF	SOUND	SRCVR	97.5	268	872	43	56	0	169	FM	S	06/30/99	02/02/83		
	4 001	I C CLIC!	1 TANKS		TOTALO	4405	1275	2046		100	884						├

TABLE E-5. INVENTORY AND STATUS BY TANK - DOUBLE SHELL-TANKS

March 31, 2000

		TANK S	TATUS				LIQUI	D VOLUME	SOLIDS	VOLUME	VOL	JME DETER	MINATION	PHOTO	8/VIDEOS	
_								DRAINABLE	(DIL remo	rved from	1					SEE
				EQUIVA-			SUPER-	INTER-	solide v	olumes)	1					FOOTNOT
				LENT	TOTAL	AVAIL.	NATANT	STITIAL		SALT	LIQUID	SOLIDS	SOLIDS	LAST	LAST	FOR
	WAST	TANK	TANK	WASTE	WASTE	SPACE	FIGUID	LIQUID	SLUDGE	CAKE	VOLUME	VOLUME	VOLUME	IN-TANK	IN-TANK	THESE
TANK	MATL	INTEGRITY	USE	INCHES	(Kgel)	(Kgal)	(Kgat)	(Kgall	(Kgall)	(Kgal)	METHOD	METHOD	UPDATE	PHOTO	VIDEO	CHANGES
							Δì	TANKFA	RM STATU	<u>.</u>						_
AY-101	DC	SOUND	DRCVR	53.8	148	832	54	14	80	0	FM	8	06/30/99	12/28/82		
AY-102	DN	SOUND	DRCVR	220.7	607	373	391	32	184	0	FM	S	11/30/99	04/28/81		
2 DOUB	LE-SHELI	L TANKS		TOTALS	756	1205	445	47	264	0		-				
							1		1	•						
		AZ.	TANK	ARM ST	ATU8								1			1
AZ-101	AGING	SOUND	CWHT	309.1	650	130	804	7	39	0	FM	8	06/30/98			ł
AZ-102	AGNG	SOUND	DRCVR	347.6	966	24	866	13	75	0	FM	8	06/30/99	10/24/84		
2 DOUB	LE-8HEL	L TANKS		TOTALS	1806	154	1672	20	114	0						<u> </u>
							នា	TANK FAI	RM STATU	8					<i>:</i>	
SY-101	CC	SOUND	CWHT	357.1	982	158	397	146	1 0	- 439	FM	s	06/30/99	04/12/89		(m)
SY-102		SOUND	DRCVR		589	551	518	11	60	0	ľ	S	06/30/99	04/29/81		
SY-103		SOUND	CWHT	271.6	747	393	361	55	311	0	ľ	s	06/30/99	10/01/65		
3 DOUB	LE-SHEL	L TANKS		TOTALS	2318	1102	1296	212	371	439						
							Ī .				1					
20 A NO	TOTAL				20386	10895	15666	1036	1234	2450	T T					T

Note: +/- 1 Keel differences are the result of computer rounding

Available Space Calculations Used in this Document

Tank Farme

AN, AP, AW, SY

1,140 Kgal

AY, AZ (Aging Waste) 980 Kgal

Notes: Drainable perceity measurements for DIL have been updated to 25% for saltcake and 15% for sludge, per HRF-2978, Rev. 1, "Updated Pumpable Liquid Volume Estimates and Jet Pump Durations for interior Stabilization of Remaining Single-Shell Tanks," September 1989. These perceity values also apply to DSTs.

Also, DIL has been extracted from the DST salids waste volumes in this table. For this report: Supermete + DIL + Solids = Total Waste for DSTs

The first transfer of wests (89,500 gallons) from SY-101 to SY-102 was completed December 19, 1999. The second (240,000 gallons) of the three wasts transfers was completed January 27, 2000. The third transfer phase began February 29, 2000, and was completed in March; 295,000 gallons were transferred.

				DDL D		1 1 21 1 1	ORI 7		arch 31, 2		1 417 - F	JIIIOL		PP IWI	41773			
						Vicilities.												
	TANK S	TATUS					LIO	UID VOLUI	ME		SOLIDS	VOLUME	VOLUM	E DETERMI	NATION	PHOTOS/	/IDEOS	
			- -		SUPER-	DRAIN- ABLE	PUMPED		DRAIN- ABLE	PUMP- ABLE					_			SEE FOOTWOTES
			STABIL!	TOTAL	NATE	INTER-	THIS	TOTAL	rignid	LIQUID	1	SALT	LIQUIDS	SOLIDS	SOLIDS	LAST	LAST	FOR
	WASTE	TANK	ISOLATION		nanip	STIT.	MONTH	PUMPED	REMAIN	REMAIN	SLUDGE	CAKE	VOLUME	VOLUME	VOLUME	IN-TANK	IN-TANK	THESE
NK	MAT'L.	INTEGRITY	STATUS	(Kgal)	(Kgal)	(Kgel)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgell	METHOD	METHOD	UPDATE	PHOTO	VIDEO	CHANGES
								A TAI	NK FARM									
101	DSSF	SOUND	/PI	891	508	79	0.0	0.0	587	587	3	380	Р	F	09/30/99			ļ
102	DSSF	SOUND	IS/PI	41	4	8	0.0	39.5	12	4	15	22	į P	FP	07/27/89	07/20/89		ł
103	DSSF	ASMD LKR	15/1P	371	5	45	0.0	111.0	50	43	366	0	_	FP	06/03/88			i
104	NCPLX	ASMO LKR	IS/IP	28	0	4	0.0	0.0	4	0	28	0		P\$	01/27/78			
105	NCPLX	ASMO LKR	IS/IP	51	0	0	0.0	0.0	0	0	51	0	P	MP	06/30/99	08/20/86		
106	CP	SOUND	IS/IP	125	°	9	0.0	0.0	9	1	125	0	P	M	09/07/82	08/19/86		
SING	LE-SHELL 1	ANKS	TOTALS	1507	517	145	0.0	150.5	662	635	588	402	I					
								AX TA	NK FARM	STATUS								- -
(-101	DSSF	SOUND	/PI	684	386	58	0.0	0.0	444	444	. 3	295	l e	F	09/30/99	08/18/87		1
(-102	CC	ASMD LKR	IS/IP	30	0	7	0.0	13.0	7	0	7	23	F	S	06/30/99	06/05/89		i
K-103	cc	SOUND	IS/IP	112	0	23	0.0	0.0	23	11	8	104	F	S	06/30/99	08/13/87		
K-104	NCPLX	ASMO LKR	IS/IP	8	0	1	0.0	0.0	1	0	В	0	P	M	06/30/99	08/18/87		}
SING	E-SHELL 1	TANKS	TOTALS:	834	386	89	0.0	13.0	475	455	26	422						
								B TAN	IK FARM	STATUS							-	
-101	NCPLX	ASMD LKR	IS/IP	113		24	0.0	0.0	24	17	0	113	l P	F	06/30/99	05/19/83		!
102	NCPLX	SOUND	IS/IP	32	4	7	0.0	0.0	11	4	0	28	P	F	06/30/99	08/22/85		
103	NCPLX	ASMD LKR	IS/IP	59	0	11	0.0	0.0	11	3	0	59	F	F	06/30/99	10/13/88		Į.
104	NCPLX	SOUND	IS/IP	371	1	45	0.0	0.0	46	42	309	61) M	M	06/30/99	10/13/88		ļ
105	NCPLX	ASMO LKR	is/ip	158	0	20	0.0	0.0	20	16	28	130	l P	MP	06/30/99	06/19/88		
106	NCPLX	SOUND	IS/IP	117	1	25	0.0	0.0	26	19	0	116	F	F	02/29/00	02/28/85		
107	NCPLX	ASMD LKR	IS/IP	165	1	22	0.0	0.0	23	19	93	71	M	M	06/30/99	02/28/85		
·10 8	NCPLX	SOUND	IS/IP	94	0	15	0.0	0.0	15	11	53	41	F	F	06/30/99	05/10/86		}
-109	NCPLX	SOUND	IS/IP	127	0	21	0.0	0.0	21	17	63	64	M	M	06/30/99	04/02/85		İ
-110	NCPLX	ASMD LKR	IS/IP	246	1	27	0.0	0.0	28	20	245	0	MP	MP	02/28/85	03/17/88		
-111	NCPLX	ASMD LKR	15/IP	237	1	23	0.0	0.0	24	29	236	0	F	F	06/26/85	06/26/85		
112	NCPLX	ASMD LKR	IS/IP	33	3	4	0.0	0.0	7	3	30	0	F	F	05/31/86	05/29/85		
201	NCPLX	ASMD LKR	IS/IP	29	1	4	0.0	0.0	5	1	28	0	M	м	04/28/82	11/12/86	06/23/95	
202	NCPLX	SOUND	IS/IP	27	lo	4	0.0	0.0	4	0	27	0	P	M	05/31/85		06/15/95	4
203	NCPLX	ASMD LKR	IS/IP	51	1	5	0.0	0.0	6	1	50	0	PM	PM	05/31/84	11/13/86		
204	NCPLX	ASMD LKR	is/IP	50	1	5	0.0	0.0	6	1	49	0	P	M	05/31/84	10/22/87		
SIN	ILE-SHELL	TANKS	TOTALS	1909	15	262	0.0	0.0	277	203	1211	683	 		·-		<u> </u>	
																		<u> </u>

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TABLE E-6. INVENTORY AND STATUS BY TANK - SINGLE-SHELL TANKS

March 31, 2000

TANK STATUS STABIL/ TOTAL SUPER- NATE SUPER- NATE SUPER- NATE STATUS SUPER- NATE STITI. MONTH PUMPED REMAIN REMAIN SUDGE CAKE WOLUME VOLUME VO	RMINATION PHOTOS/VIDEO8 SEE FOOTNOT DS SOLIDS LAST LAST FOR IME VOLUME IN-TANK IN-TANK THESE HOD UPDATE PHOTO VIDEO CHANGES 1 04/28/82 11/24/88 11/10/94 1 04/28/82 09/18/85 11/29/83 10/31/86 10/27/94 1 02/29/00 09/21/89
DRAIN- ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE	SEE FOOTNOT DS SOLIDS LAST LAST IME VOLUME IN-TANK IN-TANK THESE HOD UPDATE PHOTO VIDEO CHANGES 1 04/28/82 11/24/88 11/10/94 04/28/82 09/18/85 11/29/83 10/31/86 10/27/94 02/29/00 09/21/89
STABIL/ TOTAL SUPER- INTER- THIS TOTAL LIQUID LIQUID SALT SUDGE CAKE SUDGE CAKE STABIL/ TOTAL SUPER- INTER- THIS TOTAL LIQUID LIQUID SALT SUDGE CAKE STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATUS STATU	DS SOLIDS LAST LAST FOR THESE CHANGES I 04/28/82 11/24/88 11/10/94 04/28/82 09/18/85 11/29/83 10/31/86 10/27/94 02/29/00 09/21/89
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BX-101 NCPLX ASMD LKR IS/IP/CCS 43 1 4 0.0 0.0 5 1 42 0 P M BX-102 NCPLX ASMD LKR IS/IP/CCS 96 0 0 0.0 0.0 0 0 96 0 P M BX-103 NCPLX SOUND IS/IP/CCS 71 9 4 0.0 0.0 13 9 62 0 P F BX-104 NCPLX SOUND IS/IP/CCS 93 3 4 0.0 17.4 7 3 90 0 F F BX-106 NCPLX SOUND IS/IP/CCS 51 5 4 0.0 15.0 9 5 46 0 F S BX-106 NCPLX SOUND IS/IP/CCS 38 0 4 0.0 15.0 9 5 46 0 F S BX-106 NCPLX SOUND IS/IP/CCS 38 0 4 0.0 14.0 4 0 38 0 MP PS BX-107 NCPLX SOUND IS/IP/CCS 345 1 36 0.0 23.1 37 33 344 0 MP PS BX-108 NCPLX ASMD LKR IS/IP/CCS 26 0 4 0.0 0.0 4 0 26 0 M PS BX-109 NCPLX SOUND IS/IP/CCS 193 0 25 0.0 8.2 25 20 193 0 FP P BX-110 NCPLX ASMD LKR IS/IP/CCS 207 3 28 0.0 1.5 31 26 133 71 MP M BX-111 NCPLX ASMD LKR IS/IP/CCS 162 1 5 0.0 116.9 6 2 25 136 M M BX-112 NCPLX SOUND IS/IP/CCS 166 1 9 0.0 4.1 10 7 164 0 FP P	1 04/28/82 11/24/88 11/10/94 1 04/28/82 09/18/85 11/29/83 10/31/86 10/27/94 02/29/00 09/21/89
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BX-103 NCPLX SOUND IS/IP/CCS 71 9 4 0.0 0.0 13 9 62 0 P F BX-104 NCPLX SOUND IS/IP/CCS 93 3 4 0.0 17.4 7 3 90 0 F F BX-106 NCPLX SOUND IS/IP/CCS 51 5 4 0.0 15.0 9 5 46 0 F S BX-106 NCPLX SOUND IS/IP/CCS 38 0 4 0.0 14.0 4 0 38 0 MP PS BX-107 NCPLX SOUND IS/IP/CCS 345 1 36 0.0 23.1 37 33 344 0 MP PS BX-107 NCPLX SOUND IS/IP/CCS 345 1 36 0.0 23.1 37 33 344 0 MP PS BX-108 NCPLX ASMD LKR IS/IP/CCS 26 0 4 0.0 0.0 4 0 26 0 M PS BX-109 NCPLX SOUND IS/IP/CCS 193 0 25 0.0 8.2 25 20 193 0 FP P BX-110 NCPLX ASMD LKR IS/IP/CCS 207 3 28 0.0 1.5 31 26 133 71 MP M BX-111 NCPLX ASMD LKR IS/IP/CCS 162 1 5 0.0 116.9 6 2 25 136 M M BX-112 NCPLX SOUND IS/IP/CCS 165 1 9 0.0 4.1 10 7 164 0 FP P	11/29/83 10/31/86 10/27/94 02/29/00 09/21/89
BX-104 NCPLX SOUND IS/IP/CCS 93 3 4 0.0 17.4 7 3 80 0 F F BX-105 NCPLX SOUND IS/IP/CCS 51 5 4 0.0 15.0 9 5 46 0 F S BX-106 NCPLX SOUND IS/IP/CCS 38 0 4 0.0 14.0 4 0 38 0 MP PS BX-107 NCPLX SOUND IS/IP/CCS 345 1 36 0.0 23.1 37 33 344 0 MP PS BX-108 NCPLX ASMB LKR IS/IP/CCS 26 0 4 0.0 0.0 4 0 26 0 M PS BX-109 NCPLX SOUND IS/IP/CCS 193 0 25 0.0 8.2 25 20 193 0 FP P BX-110 NCPLX ASMB LKR IS/IP/CCS 207 3 28 0.0 1.5 31 26 133 71 MP M BX-111 NCPLX ASMB LKR IS/IP/CCS 162 1 5 0.0 116.9 6 2 25 136 M M BX-112 NCPLX SOUND IS/IP/CCS 165 1 9 0.0 4.1 10 7 164 0 FP P	02/29/00 09/21/89
BX-106 NCPLX SOUND IS/IP/CCS 51 5 4 0.0 15.0 9 5 46 0 F S BX-106 NCPLX SOUND IS/IP/CCS 38 0 4 0.0 14.0 4 0 38 0 MP PS BX-107 NCPLX SOUND IS/IP/CCS 345 1 36 0.0 23.1 37 33 344 0 MP P BX-108 NCPLX ASMD LKR IS/IP/CCS 26 0 4 0.0 0.0 4 0 26 0 M PS BX-109 NCPLX SOUND IS/IP/CCS 193 0 25 0.0 8.2 25 20 193 0 FP P BX-110 NCPLX ASMD LKR IS/IP/CCS 207 3 28 0.0 1.5 31 26 133 71 MP M BX-111 NCPLX ASMD LKR IS/IP/CCS 162 1 5 0.0 116.9 6 2 25 136 M M BX-112 NCPLX SOUND IS/IP/CCS 165 1 9 0.0 4.1 10 7 164 0 FP P	34,20,00
BX-106 NCPLX SOUND IS/IP/CCS 38 0 4 0.0 14.0 4 0 38 0 MP PS BX-107 NCPLX SOUND IS/IP/CCS 345 1 36 0.0 23.1 37 33 344 0 MP P BX-108 NCPLX ASMB LKR IS/IP/CCS 26 0 4 0.0 0.0 4 0 26 0 M PS BX-109 NCPLX SOUND IS/IP/CCS 193 0 25 0.0 8.2 25 20 193 0 FP P BX-110 NCPLX ASMB LKR IS/IP/CCS 207 3 28 0.0 1.5 31 26 133 71 MP M BX-111 NCPLX ASMB LKR IS/IP/CCS 162 1 5 0.0 116.9 6 2 25 136 M M BX-112 NCPLX SOUND IS/IP/CCS 165 1 9 0.0 4.1 10 7 164 0 FP P	06/30/99 10/23/86
BX-107 NCPLX SOUND IS/IP/CCS 345 1 36 0.0 23.1 37 33 344 0 MP P BX-108 NCPLX ASMD LKR IS/IP/CCS 26 0 4 0.0 0.0 4 0 26 0 M PS BX-109 NCPLX SOUND IS/IP/CCS 193 0 25 0.0 8.2 25 20 193 0 FP P BX-110 NCPLX ASMD LKR IS/IP/CCS 207 3 28 0.0 1.5 31 26 133 71 MP M BX-111 NCPLX ASMD LKR IS/IP/CCS 162 1 5 0.0 116.9 6 2 25 136 M M BX-112 NCPLX SOUND IS/IP/CCS 165 1 9 0.0 4.1 10 7 164 0 FP P	00,00,00 (0,00,00
BX-108 NCPLX ASMD LKR IS/IP/CCS 26 0 4 0.0 0.0 4 0 26 0 M PS BX-109 NCPLX SOUND IS/IP/CCS 193 0 25 0.0 8.2 25 20 193 0 FP P BX-110 NCPLX ASMD LKR IS/IP/CCS 207 3 28 0.0 1.5 31 26 133 71 MP M BX-111 NCPLX ASMD LKR IS/IP/CCS 162 1 5 0.0 116.9 6 2 25 136 M M M BX-112 NCPLX SOUND IS/IP/CCS 165 1 9 0.0 4.1 10 7 164 0 FP P 12 SINGLE-SHELL TANKS TOTALS: 1490 24 127 0.0 200.2 151 106 1259 207	S 06/01/95 05/19/88 07/17/95
BX-109 NCPLX SOUND IS/IP/CCS 193 0 25 0.0 8.2 25 20 193 0 FP P BX-110 NCPLX ASMD LKR IS/IP/CCS 207 3 28 0.0 1.5 31 26 133 71 MP M BX-111 NCPLX ASMD LKR IS/IP/CCS 162 1 5 0.0 116.9 6 2 25 136 M M M BX-112 NCPLX SOUND IS/IP/CCS 165 1 9 0.0 4.1 10 7 164 0 FP P 12 SINGLE-SHELL TANKS TOTALS: 1490 24 127 0.0 200.2 151 106 1259 207	09/18/90 09/11/90
BX-110 NCPLX ASMD LKR BXPP/CCS 207 3 28 0.0 1.5 31 26 133 71 MP M BX-111 NCPLX ASMD LKR IS/IP/CCS 162 1 5 0.0 116.9 6 2 25 136 M M BX-112 NCPLX SOUND IS/IP/CCS 165 1 9 0.0 4.1 10 7 164 0 FP P 12 SINGLE-SHELL TANKS TOTALS: 1490 24 127 0.0 200.2 151 106 1259 207	S 07/31/79 06/05/94
BX-111 NCPLX ASMD LKR IS/IP/CCS 162 1 5 0.0 116.9 6 2 25 136 M M M BX-112 NCPLX SOUND IS/IP/CCS 165 1 9 0.0 4.1 10 7 164 0 FP P 12 SINGLE-SHELL TANKS TOTALS: 1490 24 127 0.0 200.2 151 106 1259 207	09/17/90 09/11/90
BX-112 NCPLX SOUND IS/IP/CCS 165 1 9 0.0 4.1 10 7 164 0 FP P 12 SINGLE-SHELL TANKS TOTALS: 1490 24 127 0.0 200.2 151 106 1259 207	I 06/30/99 07/15/94 10/13/94
12 SINGLE-SHELL TANKS TOTALS: 1490 24 127 0.0 200.2 151 106 1259 207	l 06/30/99 05/19/94 02/28/96
	09/17/90 09/11/90
BY TANK FARM STATUS	
8Y-101 NCPLX SOUND IS/RP 387 0 28 0.0 35.8 28 24 109 278 P M	I 05/30/84 09/19/89
BY-102 NCPLX SOUND IS/PI 277 0 40 0.0 159.0 40 33 0 277 MP M	I 05/01/95 09/11/87 04/11/95
BY-103 NCPLX ASMD LKR IS/PI 400 0 58 0.0 95.9 58 53 9 391 MP M	I 06/30/99 09/07/89 02/24/97
BY-104 NCPLX SOUND IS/IP 326 0 40 0.0 329.5 40 36 150 176 P M	f 06/30/99 04/27/83
BY-105 NCPLX ASMOLKR /PI 503 0 111 0.0 0.0 111 111 48 455 P MF	P 08/31/99 07/01/86
BY-106 NCPLX ASMD LKR /PI 562 0 119 0.0 63.7 119 119 84 478 P MF	P 12/31/98 11/04/82
BY-107 NCPLX ASMD LKR IS/IP 266 0 39 0.0 56.4 39 35 40 226 P MF	P 06/30/99 10/15/86
BY-108 NCPLX ASMD LKR IS/IP 228 0 33 0.0 27.5 33 26 154 74 MP M	I 04/28/82 10/15/86
BY-109 NCPLX SOUND IS/PI 290 0 31 0.0 157.1 31 26 57 233 F PS	S 07/08/87 06/18/97
BY-110 NCPLX SOUND IS/IP 398 0 21 0.0 213.3 21 17 103 295 M S	09/10/79 07/26/84
BY-111 NCPLX SOUND IS/IP 459 0 14 0.0 313.2 14 6 0 459 P M	t 06/30/99 10/31/86
BY-112 NCPLX SOUND IS/IP 291 0 24 0.0 116.4 24 12 0 291 P M	t 06/30/99 04/14/88
12 SINGLE-SHELL TANKS TOTALS: 4387 0 558 0.0 1567.8 558 498 754 3633	L

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TABLE E-6. INVENTORY AND STATUS BY TANK - SINGLE-SHELL TANKS
March 31, 2000

						*****		IVI	arch 31,						//decreteces			**********
	THESE !	TOLUMES	are the	RESUL	9 (9)	K(e)Kiz		ALKUT	ATTONS	ANDA	(Na) (19 (6)	53,000	ikiniy.	(*;:*: <u>}</u> /	i Ay (1950)		NA S
	TANK S	STATUS					LIQ	UID VOLU	ME		SOLIDS	VOLUME		VOLUM	E DETERMIN	NATION		
						DRAIN-			DRAIN-	PUMP-								SEE
						ABLE	PUMPED		ABLE	ABLE	1							FOOTNO
			STABIL/	TOTAL	SUPER-	INTER-	THIS	TOTAL	LIQUID	LIQUID	1	SALT	LIQUIDS	SOLIDS	SOLIDS	LAST	LAST	FOR
	WASTE	TANK	ISOLATION	WASTE	NATE	STIT.	MONTH	PUMPED	REMAIN	REMAIN	SLUDGE	CAKE	VOLUME	VOLUME	VOLUME	IN-TANK	IN-TANK	THESE
TANK	MAT'L.	INTEGRITY	STATUS	(Kgal)	(Kgel)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	METHOD	METHOD	UPDATE	PHOTO	VIDEO	CHANGE
								C TA	NK FARM	 I STATUS								
>101	NCPLX	ASMD LKR	IS/IP	88		4	0.0	0.0	4	0	68	0	М	M	11/29/83	11/17/87		1
C-102	DC	SOUND	IS/IP	316	0	62	0.0	48.7	62	55	316	0	F	FP	09/30/95	05/18/76	08/24/95	5
C-103	NCPLX	SOUND	/PI	198	79	4	0.0	0.0	63	63	119	0	F	S	12/31/98	07/26/87		
C-104	CC	SOUND	IS/IP	263	٥ ا	0	0.0	0.0	0	0	263	0	FP	P	02/01/00	07/25/90		
C-105	NCPLX	SOUND	16/P1	134	2	10	0.0	0.0	12	8	132	0	F	S	02/29/00	08/05/94	08/30/95	5
C-106	NCPLX	SOUND	/PI	74	68	0	0.0	0.0	68	62	6	0	F	PS	10/31/99	08/05/94	08/08/94	1 0
C-107	DC	SOUND	IS/IP	257		30	0.0	40.8	30	25	257	0	F	S	06/30/99	00/00/00		
C-108	NCPLX	SOUND	IS/IP	86	ه ا	4	0.0	0.0	4	0	66	0	M	S	02/24/84	12/06/74	11/17/94	l l
C-109	NCPLX	SOUND	IS/IP	66	4	4	0.0	0.0	8	4	62	0	M	PS	11/29/63	01/30/76		
C-110	DC	ASMD LKR	IS/IP	178	1 1	37	0.0	15.5	38	30	177	0	F	FMP	06/14/95	08/12/86	05/23/99	5
C-111	NCPLX	ASMD LKR	IS/IP	57	ه ا	4	0.0	0.0	4	0	57	0	M	S	04/28/82	02/25/70	02/02/99	5
C-112	NCPLX	SOUND	IS/IP	104	١٥	6	0.0	0.0	6	1	104	0	м	PS	09/18/90	09/18/90		
C-201	NCPLX	ASMD LKR	IS/IP	2		0	0.0	0.0	0	0	2	0	P	MP	03/31/82	12/02/86		
C-202	EMPTY	ASMD LKR	IS/IP	1	0	0	0.0	0.0	0	0	1	0	P	M	01/19/79	12/09/86		1
C-203	NCPLX	ASMD LKR	IS/IP	5	1 0	0	0.0	0.0	0	0	5	0	P	MP	04/28/82	12/09/86		
C-204	NCPLX	ASMD LKR	IS/IP	3	0	0	0.0	0.0	0	0	3	0	P	MP	04/26/62	12/09/86		:
16 SIN	GLE-SHELI	TANKS	TOTALS:	1812	164	165	0.0	103.0	319	268	1658	0				 		
					·	•		S_TA	NK FARM	STATUS								
S-101	NCPLX	SOUND	/PI	427	12	68	0.0	0.0	80	80	211	204	F	PS	12/31/98	03/18/88		
S-102	DSSF	SOUND	/PI	495	0	93	7.5	53.6	93	89	105	390	P	FP	03/31/00	03/18/88		(d)
8-103	DSSF	SOUND	/PI	234	3	54	0.0	23.9	57	50	9	222	M	S	06/30/99	06/01/89	01/28/0	0 (1)
S-104	NCPLX	ASMD LKR	IS/IP	294	1 1	34	0.0	0.0	35	31	293	0	M	M	12/20/84	12/12/84		l .
8-106	NCPLX	SOUND	IS/IP	458	0	42	0.0	114.3	42	33	2	454	MP	S	09/26/88	04/12/89		1
S-106	NCPLX	SOUND	/PI	328	1 0	10	0.0	203.6	10	2	0	328	P	FP	12/31/99	03/17/89	01/28/0	(e) (c)
S-107	NCPLX	SOUND	/PI	376	14	47	0.0	0.0	61	61	293	69	F	PS	05/30/99	03/12/87		
S-106	NCPLX	SOUND	IS/PI	432	0	0	0.0	199.8	0	0	5	427	P	MP	10/01/99	03/12/87	12/03/9	В
S-109	NCPLX	SOUND	/PI	507	0	83	0.0	111.0	83	83	13	494	F	PS	09/30/76	12/31/98		1
S-110	NCPLX	SOUND	IS/PI	390	0	30	0.0	203.1	30	27	131	259	F	PS	05/14/92	03/12/87	12/11/9	6
S-111	NCPLX	SOUND	/PI	472	111	64	0.0	3.3	175	175	117	244	P	FP	09/30/99	06/10/69		1
S-112		SOUND	/Pt	523	1	70	0.0	125.1	70	70	6	517	P	FP	12/31/98	03/24/87		
12 65	IGLE-SHELI	TANKS	TOTALS:	4934	141	595	7.5	1037.7	736	701	1185	3606	. 			-		+
14 51	MICE-SHELL	- 121M/2	IUIALS:	7037	171	020	7,0	1001.1	730	,,,,			·					

TABLE E-6. INVENTORY AND STATUS BY TANK - SINGLE-SHELL TANKS

March 31, 2000

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								X 3 6 6 6		ANIPAL.	٠٤. ٤. ف	*.\	2.3.011		*::::3,;			NTS
	TANK 8	TATUS					LK	UID VOLU	ME		SOLIDS	VOLUM	E	VOLUM	E DETERMI	MOITAN		
			÷			DRAIN-			DRAIN-	PUMP-			i					SEE
						ABLE	PUMPED		ABLE	ABLE			į .					FOOTNO
			STABIL/	TOTAL	SUPER-	INTER-	THIS	TOTAL	LIQUID	LIQUID		SALT	LIQUIDS	SOLIDS	SOLIDS	LAST	LAST	FOR
	WASTE	TANK	ISOLATION	WASTE	NATE	STIT.	MONTH	PUMPED	REMAIN	REMAIN	SLUDGE	CAKE	VOLUME	VOLUME	VOLUME	IN-TANK	IN-TANK	THESE
TANK	MAT'L.	INTEGRITY	STATUS	(Kgal)	(Kgal)	(Kgel)	(Kgal)	(Kgal)	(Kgal)	(Kgel)	(Kgel)	(Kgal)	METHOD	METHOD	UPDATE	PHOTO	VIDEO	CHANGE
								SX TAI	NK FARM	STATUS								
SX-101	DC	SOUND	/P1	448	ه ا	99	0.0	0.0	99	99	1 0	448	l p	FP	06/30/99	03/10/89		1
	DSSF	SOUND	/Pi	514	هٔ	134	0.0	0.0	134	101	ا	514		M	03/31/00			
	NCPLX	SOUND	/P1	634	ا	132	0.0	0.0	132	132	115	519	;	8	06/30/99	12/17/87		
	DSSF	ASMD LKR	18/PI	398	هٔ	48	0.0	231.3	48	44	136	175	F	s	07/31/90		02/04/98	(a)
	5 DSSF	SOUND	/PI	637	ŏ	141	0.0	0.0	141	141	65	572		F	06/30/99	06/15/66	02,04,00] "
	B NCPLX	SOUND	/PI	371	هٔ ا	36	0.0	147.5	36	27	0	371	l F	PS.	11/30/99	06/01/80		ы
SX-107	7 NCPLX	ASMD LKR	15/IP	104	0	6	0.0	0.0	6	0	104	0	P	M	04/28/82	03/06/67]
8X-10	NCPLX	ASMD LKR	IS/IP	87	0	0	0.0	0.0	0	0	87	0	•	M	12/31/03			
8X-10	NCPLX	ASMD LKR	15/IP	. 250	0	0	0.0	0.0	0	0	76	175		M	06/30/99	05/21/86		
5X-110	NCPLX	ASMD LICE	16/IP	62		0	0.0	0.0	0	0	62	0	M	PS	10/06/76	02/20/67		1
8X-111	NCPLX	ASMD LICR	16/IP	122	0	8	0.0	0.0	8	3	122	0	M	PS	06/30/99	06/09/94		
8X-11	NCPLX	ASMD LKR	15/IP	108	0	6	0.0	0.0	6	t	108	0	P	M	06/30/99	03/10/87		i
8X-11:	B NCPLX	ASMD LKR	16/IP	31	0	0	0.0	0.0	0	0	31	0	P	M	06/30/99	03/18/88		
8X-114	I NCPLX	ASMD LKR	16/IP	181	. 0	21	0.0	0.0	21	15	147	34	P	M	04/28/82	02/26/67		
SX-111	5 NCPLX	ASMD LKR	IS/IP	12	0	0	0.0	0.0	0	0	12	0	P	M	04/26/62	03/31/86		
15 SIN	GLE-SHELL	TANKS	TOTALS:	3959	0	631	0.0	376.8	631	563	1064	2808			· ··			
								T TAP	IK FARM	STATUS								
T-101	NCPLX	ASMD LKR	IS/PI	102	1 1	20	0.0	25.3	21	16	37	64	l F	8	06/30/99	04/07/93		ł
T-102	NCPLX	SOUND	IS/IP	32		3		0.0	16	11	19	0		FP	06/31/64	06/26/89		
T-103	NCPLX	ASMD LKR	15/IP	27	4	3	0.0	0.0	7	3	23	ō		FP	11/29/83			
T-104	NCPLX	SOUND	15/PI	317	0	31	0.0	149.5	31	27	317	0	P	MP	11/30/99	06/29/89	10/07/99	J
T-106	NCPLX	SOUND	IS/IP	96	0	5	0,0	0.0	5	0	98	0	P	F	06/29/87	06/14/87		1
T-106	NCPLX	ASMD LKR	IS/IP	21	2	0	0.0	0.0	2	2	19	0	l P	FP	04/28/82	06/29/89		
T-107	NCPLX	ASMD LKR	IS/PI	173	0	34	0.0	11.0	34	20	173	0	P	FP	05/31/96	07/12/84	05/09/96	şļ
T-106	NCPLX	ASMD LKR	IS/IP	44	l o	5	0.0	0.0	5	0	21	23	l P	м	06/30/99	07/17/84		

TABLE E-6. INVENTORY AND STATUS BY TANK - SINGLE-SHELL TANKS
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	TANK S						1 60				1 ^^	****						
					ļ	DRAIN-	LR	UID VOLU		DI 10 4D	SOLIDS	VOLUME	VOLUI	ME DETERM	NATION	<u> </u>		1
						ABLE	DI IL IDEO		DRAIN-	PUMP-								SEE
			STABIL/	TOTAL	SUPER-	NTER-	PUMPED THIS	TOTAL	ABLE LIQUID	ABLE		CALT	Liouma	00170	001700			FOOTNO
	WASTE	TANK	ISOLATION							LIQUID		SALT	LIQUIDS	SOLIDS	SOLIDS	LAST	LAST	FOR
ANK	MATL	INTEGRITY	STATUS		(Kgal)	STIT. Kgell	MONTH (Kgal)	PUMPED	REMAIN (Kgal)	REMAIN (Kgal)	SLUDGE (Kgal)	(Kgal)	VOLUME	VOLUME	VOLUME	IN-TANK	IN-TANK	THESE
			UINIOU	fudient	I LABOUT	Ben	(Albert	(L/Bank	(A)	fuffed		(v/get)	IMETHOU	MEIITOU	UPDATE	PHOTO	VIDEO	CHANGE
-109	NCPLX	ASMD LKR	IS/IP	58	0	10	. 0.0	0.0	10	3	1 0	58	М	M	06/30/99	02/25/93		1
-110	NCPLX	SOUND	IS/PI	369	1	47	0.0	50.3	48	43	368	0	P	FP	01/31/00	07/12/84	10/07/99	
-111	NCPLX	ASMD LKR	IS/PI	446	0	38	0.0	9.6	38	36	446	0	P	FP	04/18/94	04/13/94		4
-112	NCPLX	SOUND	IS/IP	67	7	4	0.0	0.0	11	7	80	0	P	FP	04/28/82	08/01/84		
-201	NCPLX	SOUND	IS/IP	29	1	4	0.0	0.0	5	1	28	0	M	PS	06/31/78			1
-202	NCPLX	SOUND	IS/IP	21	0	3	0.0	0.0	3	0	21	0	FP	P	07/12/61	07/06/89		1
-203	NCPLX	SOUND	IS/IP	36	0	6	0.0	0.0	5	0	35	0	M	PS	01/31/76	08/03/89		1
-204	NCPLX	SOUND	IS/IP	38	0	5	0.0	0.0	5	0	38	0	FP	₽	07/22/81	08/03/89		
6 SIN	GLE-SHELL	TANKS	TOTALS:	1877	29	217	0.0	245,7	246	168	1703	145				·		
				7.5.	<u> </u>						1	1.10	<u> </u>					'
									NK FARM									
	NCPLX	SOUND	IS/IP/CCS	87] 3	8	0.0	0.0	11	7	74	10	F	P	06/30/99			
	NCPLX	SOUND	IS/IP/CCS	217	0	27	0.0	94.4	27	16	•	217	M	8	08/31/84	10/31/86		1
	NCPLX	SOUND	IS/IP/CCS	157	°	18	0.0	68.3	18	11	0	157	F	S	06/30/99	10/31/85		1
	NCPLX	SOUND	IS/IP/CCS	65	5	9	0.0	3.6	14	9	23	37	F	FP	06/30/99	10/16/84		
	NCPLX	ASMD LKR	1S/IP/CCS	609	0	25	0.0	121.6	25	14	0	609	M	PS	08/22/77	10/24/89		1
	NCPLX	SOUND	IS/IP/CCS	341	°	37	0.0	134.6	37	30	•	341	M	S	06/30/99	10/31/86		
	NCPLX	ASMD LKR	IS/IP/CCS	36	!	6	0.0	0.0	7	1	8	27	FP	FP	06/30/99	10/31/85		
	NCPLX	SOUND	IS/IP/CCS	134	°	8	0.0	13,7	8	1	5	128	P	FP	06/30/99	09/12/89		1
	NCPLX	SOUND	IS/IP/CCS	384	0	6	0.0	72.3	6	2	384	0	F	P\$	06/30/99	10/24/89		
	NCPLX	ASMD LKR	IS/IP/CCS	462	0	14	0.0	115.1	14	10	37	425	M	PS	06/30/99	10/24/89		
	NCPLX	SOUND	IS/IP/CCS	370		10	0.0	96.4	10	6	43	327	M	PS	06/30/99	09/12/89		
	NCPLX	SOUND	IS/IP/CCS	649	0	26	0.0	94.0	26	21	0	649	P	PS	06/30/83	11/19/87		
	NCPLX	ASMD LKR	IS/IP/CCS	807	l °	18	0.0	19.2	18	14	183	424	M	PS	06/30/99	04/11/83		
	NCPLX	ASMD LKR	IS/IP/CCS	535	0	17	0.0	104.3	17	11	4	531	М	PS	06/30/99	04/11/83	02/17/95	i
	NCPLX	ASMD LKR	IS/IP/CCS	568	0	25	0.0	99.1	25	15	0	568	М	S	06/30/99	06/15/86		
	NCPLX	ASMD LKR	IS/IP/CCS	631	0	21	0.0	23.8	21	17	68	663	М	PS	06/30/99	10/17/89		ļ
	NCPLX	ASMD UKR	IS/IP/CCS	626	0	10	0.0	54.3	10	5	29	597	. М	PS	06/30/99	04/11/83		1
	NCPLX	SOUND	IS/IP/CCS	286	0	0	0.0	89.1	0	0	21	265	F	S	02/01/00	12/19/79		
X-1 11																		•

TABLE E-6. INVENTORY AND STATUS BY TANK - SINGLE-SHELL TANKS
March 31, 2000

•	THESTER	(egatimes)	ARR THE	a exam	T OF R	NE HADES	DING 6		i Have									
	TANK 8	TATUS						UID VOLU		Kallallalla		VOLUM		E DETERMI				
					1	DRAIN-	LA	IOID VOEO	DRAIN-	PUMP-	SOLIDS	VOLUM	VOLUM	E DE LEMMA	AVIKA	PHOTOS/	AIDEOS	SEE
					SUPER-	ABLE	PUMPED		ABLE	ABLE	1							FOOTNOT
			STABIL/	TOTAL	NATE	INTER-	THIS	TOTAL	LIQUID	LIQUID	1	SALT	LIQUIDS	SOLIDS	SOLIDS	LAST	LAST	FOR
	WASTE	TANK	ISOLATION	WASTE	LIQUID	STIT.	MONTH	PUMPED	REMAIN		SLUDGE		VOLUME	VOLUME		IN-TANK	IN-TANK	
TANK	MATL	INTEGRITY	STATUS	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgall)	METHOD	METHOD	UPDATE	PHOTO		CHANGES
								TV TAI	NK FARM									
TY-101	NCPLX	ASMD LKR	IS/IP/CCS	118	1 0	2	0.0	8.2	2	O SATINE	72	46	1 2	F	06/30/99	l		1
TY-102	NCPLX	SOUND	IS/IP/CCS	64	هٔ	12	0.0	6.6	12	5	%	64	[FP	06/28/82			
TY-103	NCPLX	ASMD LKR	IS/IP/CCS	162	ها	20	0.0	11.5	20	16	162	0		FP	07/09/82			
TY-104	NCPLX	ASMD LKR	IS/IP/CC8	43	٥	4	0.0	0.0	4	0	43	o	'	FP	06/27/90			
TY-106	NCPLX	ASMD LKR	IS/IP/CCS	231	٥	12	0.0	3.6	12	10	231	0	,	M	04/28/82			
TY-106	NCPLX	ASMD LKR	IS/IP/CCS	21	0	3	0.0	0.0	3	0	21	o		M	06/30/99			
				-	<u> </u>				· -							00,22,00		
6 SING	E-SHELL 1	ANKS	TOTALS:	639	0	53	0.0	29.9	63	31	529	110						
								II TAN	K FARM	GTATIN								<u> </u>
U-101	NCPLX	ASMD LKR	IS/IP	25	3	3	0.0	0.0	6	2	22	0		MP	04/28/82	1 0000000		ı
U-102	NCPLX	SOUND	/PI	367	0	72	9.2	25.1	72	68	43	314		MP	12/31/98			۱
U-103	NCPLX	SOUND	/PI	440		26	7.7	93.7	25	21	12	428		FP	10/31/99			(h)
U-104	NCPLX	ASMD LKR	IS/IP	122	ò	0	0.0	0.0	0	0	79	43	,	MP	06/30/99			(1)
U-106	NCPLX	SOUND	/PI	367	0	58	2.2	66.2	58	54	32	335	FM	PS	01/31/00			(c)
U-106	NCPLX	SOUND	/PI	226	15	41	0.0	0.0	56	56	1 6	211	F	PS	12/31/98			(0)
U-107	DSSF	SOUND	/PI	406	33	82	0.0	0.0	115	115	15	360	;	S	12/31/98			
U-106	NCPLX	SOUND	/Pf	468	24	100	0.0	0.0	124	124	29	415	·	Š	12/31/98			
U-109	NCPLX	SOUND	/P1	452	6	99	12.8	12.8	109	105	36	411	, F	F	06/31/99			(g)
U-110	NCPLX	ASMD LKR	IS/PI	186	0	18	0.0	0.0	18	14	186	0	M	M	12/30/84			1
U-111	DSSF	SOUND	/Pt	329	0	71	0.0	0.0	71	71	26	303	PS	FPS	12/31/98			
U-112	NCPLX	ASMD LKR	IS/IP	49	4	4	0.0	0.0	8	4	45	0	P	MP	02/10/84			ł
U-201	NCPLX	SOUND	IS/IP	5	1	1	0.0	0.0	2	1	4	0	M	8	08/15/79			Ī
U-202	NCPLX	SOUND	IS/IP	5	1	1	0.0	0.0	2	1	4	0	М	S	08/15/79			l
U-203	NCPLX	SOUND	IS/IP	' 3	1	0	0.0	0.0	1	1	2	0	M	S	08/15/79			
U-204	NCPLX	SOUND	IS/IP	3	ו	0	0.0	0.0	1	1	2	0	M	8	08/15/79			i
16 SING	LE-SHELL	TANKS	TOTALS:	3445	89	576	31.9	197.8	666	638	536	2820						
	20244																	
GRAND	IUIAL			33626	1364	3709	39.4	5130.1	5077	4456	11393	20889						

TABLE E-6. INVENTORY AND STATUS BY TANK - SINGLE-SHELL TANKS March 31, 2000

THESE AT LAMES ARE THE RESULT OF EMBNEEDING CALCULATIONS AND MAY NOT AGREE WITH SURFACE DEVIL MEASUREMENTS FOOTNOTES:

Total Waste is calculated as the sum of Studge and Saltcake plus Supernate. The category "Interim legisted (III) was changed to intrusion Prevention (IP) in June 1993. (See Appendix C) Stabilization information from WHC-SD-RE-TI-178 SST STABILIZATION RECORD, letest revision, or SST Stabilization or Cognizant Engineer

NOTES: Changes were made in the volumes of the DIL, PLR, DLR and Supernate, per RPP-5556, Rev 0, "Undated Drainable Interstitial Liquid Volume Estimates for 119 Single-Shell Tanks Declared Stabilized, " February 7, 2000. (Changes are made in the February issue of this Report). Porosity values are now 25% for saltcake and 15% for sludge, per HNF-2978, Rev. 1, "Updated Pumpable Liquid Volume Estimates and Jet Pump Durations for Interim Stabilization of Remaining Single-Shell Tanks." September 1999.

Changes were made in S-108 per Best Basis Inventory (BBI) undate 10/1/99, but not T-104 which was interim stabilized in November 1999, nor in any tanks in the pumping process. (Changes were made in the March issue of this Report) Changes were made in C-104 and TX-118 per Best Basis Inventory update 2/1/00, but not T-110 which was interim stabilized in January 2000. nor in any tanks in the pumping process. (Changes were made in the March issue of this Report) Supernate in SX-102 was changed to DIL per BBI: this correction will be made in the next revision to HNF-2978. (Changes were made in the March issue of this Report)

(a) SX-104 Following Information from Cognizant Engineer

Pumping was interrupted on July 27, 1999, by a leaking saltwell pump. This tank is being evaluated for interim stabilistion based on equipment failure: it is anticipated that interim stabilization will be complete in April 2000.

(b) SX-106 Following information from Cognizant Engineer

Pumping was discontinued on January 5, 2000, to allow the waste levels to stabilize, so waste porosities and final waste volumes can then be calculated to determine whether this tank meets Interim Stabilization criteria.

(c) U-106 Following information from Cognizant Engineer.

Saltwell pumping began December 10, 1999. The waste is pumped directly to SY-102. Pumping was suspended on March 7, 2000, due to pump failure, which is expected to be repaired in April. Volumes are now based on the original estimated volumes in HNF-2978, Rev. 1.

Total Waste: 367.0 Kgal Supernete: 0.0 Kgali

Drainable Interstitiel Liquid: 57,80 Kgal

Pumped this month: 2.2 Kgal Total Pumped: 66.2 Keel

Drainable Liquid Remaining: 67.8 Kgaf Pumpeble Liquid Remaining: 53.8 Kgel

Studge: 32 Kgal Saltcake: 336 Kgal

in March 2000, a total of 2,247 get of fluid was removed, and a total of 450 get of waste. Also, 1,316 gal of water were used as dilution and 100 gal of water were used for tansfer line flushes.

TABLE E-6. INVENTORY AND STATUS BY TANK - SINGLE-SHELL TANKS March 31, 2000

ARE THE RESULT OF ENGINEERING CALCULATIONS AND MAY NOT ACREE

(d) 8-102 Following information from Cognizant Engineer

Pumping commenced March 18, 1999. The waste is pumped directly to SY-102. Pumping stopped on November 17, 1999, when problems with the pump developed Pumping resumed on February 19, 2000, after the pump was replaced. Problems with the new pump forced a shubbown on March 23, 2000.

Supernata: 0.0 Kgel Total Waste: 495.4 Kgal

Drainable interetitlat: 93.2 Kgal Pumped this month: 7.5 Kgal Total Pumped: 53.6 Kgal

Drainable Liquid Remaining: 93.2 Kgal Pumpable Liquid Remaining: 08.8 Kgal

Słudge: 105.0 Kgel Saltoske: 390.4 Kgel

of dilution water and 2,441 gal of water were added for transfer line flushes. in Merch 2000, a total of 9,118 gal of fluid was removed with 1,522 gal of water added by flushes/priming for a net removal of 7,496 gal of tank waste. In addition, 19,314 gal

lemaining volumes are now based on the original estimated volumes in HMF-2978, Rev. 1.

- (e) S-106 Pumping was discontinued on January 3, 2000, to allow the wasta levels to stabilize, so wasta porcelties and final waste volumes can then be calculated to determine whether this
- S \$-103 Pumping was discontinued on January 5, 2000; to allow the waste levels to stabilize, so waste porosities and final waste volumes can then be calculated to determine whether this lank meets interim Stabilization criteris. The stabilization evaluation was completed on March 24, 2000, but submittal to OPR and Ecology for final approval is panding
- (g) U-109

Following information from Cognizant Engineer

Pumping begen Merch 11, 2000.

Superneta: 6.2 Kgal Tank Wasta: 352.2 Kgal

Pumped this month: 12.8 Kgal Drainable Interstitiel: 98 Kgal Total Pumped: 12.8 Kgal

Pumpabia Liquid Remaining: 106.2 Kgal Drainable Liquid Remaining: 109.2 Kgal

Studge: 35 Kgal

Settoeke: 411 Kgal

During Merch 2000, a total of 13,512 gal of fluid was removed with 665 gal of water added by pump prining/equipment flushes, for a net removal of 12,827 gal of tank wasts. In addition, 6,435 gal of dilution water and 2,120 gal of water were used for transfer line flushee.

TINE-0104-14

TABLE E-6. INVENTORY AND STATUS BY TANK - SINGLE-SHELL TANKS

March 31, 2000

THE PROPERTY OF THE RESULT OF THE RESULT OF THE RESULT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE

FOOTNOTES:

(h) U-102 Following Information from Cognizant Engineer

Pumping began in this tank on January 20, 2000.

Total Waste: 357.0 Kgal Supernate: 0.0 Kgal

Drainable Interstitial Liquid: 71.9 Kgal

Pumped this Month: 9.2 Kgal Total Pumped: 25.1 Kgal

Drainable Liquid Remaining: 71.9 Kgel Pumpable Liquid Remaining: 67.9 Kgel

Sludge: 43.0 Kgal Saltcake: 314.0 Kgal

During March 2000, a total of 10,127 gal of fluid was removed and a total of 848 gal of water was added by pump priming/equipment flushes, for a net removal of 9,179 gal of tank waste. In addition 10,398 gal of water were used as dilution and 1,431 gal of water were used for transfer line flushes.

Remaining volumes are now based on the original estimated volumes in HNF-2978, Rev.1.

(i) U-103

E-16

Following information from Cognizant Engineer.

Saltwell pumping commenced September 26, 1999. The waste is pumped directly to SY-102.

Total Wasts: 440.0 Kgal Supernate: 0.0 Kgal

Drainable Interetitial Liquid: 25.3 Kgal Pumped this month: 7.7 Kgal Total Pumped: 93.7 Kgal

Drainable Liquid Remaining: 25.3 Kgal Pumpable Liquid Remaining: 21.3 Kgal

Sludge: 12.0 Kgal Saltoake: 428.0 Kgal

In March 2000, a total of 8,446 gal of fluid was removed and 777 gal of water added for priming/flushes, for a net removal of 7,669 gal of water. In addition, 16,415 gal of water were used as dilution and 2,318 gal of water were used for transfer line flushes.

Remaining volumes are now based on the original estimated volumes in HNF-2978, Rev. 1.

(ii) C-108 Changes in volumes per HNF-5267, Rev. 2, "Waste Retrieval Sluicing System Campaign Number 3 Solide Volume Transferred Calculation, " November 17, 1999.

APPENDIX F PERFORMANCE SUMMARY

TABLE F-1. SUMMARY OF WASTE TRANSACTIONS IN THE DOUBLE-SHELL TANKS

SUMMARY OF WASTE TRANSACTIONS IN THE DOUBLE-SHELL TANK (DST) SYSTEM FOR MARCH 2000: ALL VOLUMES IN KGALS

- The DST system received waste additions from SST Stabilization & Tank 241-SY-101 remediation in March.
- There was a not change of +366,000 gallons in the DST system for March 2000.
- The total DST inventory as of March 31, 2000 was 20.385 million gallons.
- There was a correction to the total DST inventory for February 2000; the February report stated a total DST inventory of 20.001 million gallons, the actual total DST inventory for February was 19.999 million gallons.
- There was no Saltwell Liquid (SWL) pumped to the East Area DSTs in March.
- There was ~108 Kgais of Saltwell Liquid (SWL) pumped to the West Area DSTs (102-SY) in March.
- The SWL numbers are preliminary and are subject to change once cognizant engineers do a validation, the volumes reported contain actual waste volume plus any water added for dilution and transfer line flushes.
- Remediation of Tank 101-SY continued in March. ~132 Kgals of Tank 101-SY waste was transferred
 to Tank 102-SY in March. ~39 Kgals of water was used for dilution of Tank 101-SY waste and was received into
 Tank 102-SY. Tank 101-SY was backfilled with ~224 Kgals of water following the 3rd transfer.
- There was ~504 Kgals, of waste transferred from West Area (102-8Y) to East Area (106-AP) in March (x-site transfer).
- Interstitial Liquid (IL) waste type was added as a unique waste category in March. This change will enhance waste volume reporting and better align those databases reporting waste volumes.
- The solids volumes for several of the DST's were updated in March. The DST solids volumes will be updated periodically, as
 the Best Basis Inventory (BBI) engineers evaluate and update tank waste volumes.

MARCH 2000 DET WASTE RECEIPTS								
FACILITY	GENERATIONS	OTHER GAINS AS	SOCIATED WITH	OTHER LOSSES AS	HOCIATED WITH			
SWL (West)	+106 Kgel (2SY)	SLURRY	+8 Kgel	SLURRY	-7 Kgal			
X-Site flush	+30 Kgel (6AP)	CONDENSATE	+8 Kgei	CONDENSATE	-3 Kgel			
101-SY remediation	+263 Kgel (18Y, 28Y)	INSTRUMENTATION	+0 Kgel	INSTRUMENTATION	-16 Kgel (*)			
Tank Farms	+1 Kgel (102AZ)	UNKNOWN	+2 Kgel	UNKNOWN	-8 Kgel			
TOTAL				WAY .				

(*) negative "INSTRUMENTATION" includes ~16 Kgale of waste level change in Tank 241-SY-101. The waste volume discrepancy was evaluated by process engineers as "a suspected bias in the SY-farm waste totalizer used during back dilution".

ACTUAL DST WASTE RECEIPTS	PROJECTED DET WASTE RECEIPTS	MISC, DST CHANGES (+/-)	WVR	NET DST CHANGE	TOTAL DST VOLUME
124	127	-19	0	105	19098
39	209	-5	0	34	19132
248	173	-17	0	231	19363
411	149	-104	0	307	19670
360	462	-29	0	331	19999
402	130	-16	0	386	20385
	441		-600		
	395		0		
	174		0		
	190		0		
	201		0		
	186		. 0	1	
	124 39 248 411 360	WASTE RECEIPTS 124 127 39 209 248 173 411 149 360 462 402 130 441 395 174 190	WASTE RECEIPTS WASTE RECEIPTS CHANGES (%-) 124 127 -19 39 209 -5 248 173 -17 411 149 -104 360 462 -29 402 130 -16 441 385 174 190 201	WASTE RECEIPTS WASTE RECEIPTS CHANGES (+/-) 124	WASTE RECEIPTS CHANGES (+/-) CHANGE 124 127 -19 0 106 39 209 -5 0 34 248 173 -17 0 231 411 149 -104 0 307 360 462 -29 0 331 402 130 -18 0 386 441 -600 -600 -600 395 0 -600 -600 174 0 -600 -600 190 0 0 -600 201 0 0 -600

NOTE: The "PROJECTED DST WASTE RECEIPTS" and "WVR" numbers were updated in October 1999, as supplied by cognizent engineers.

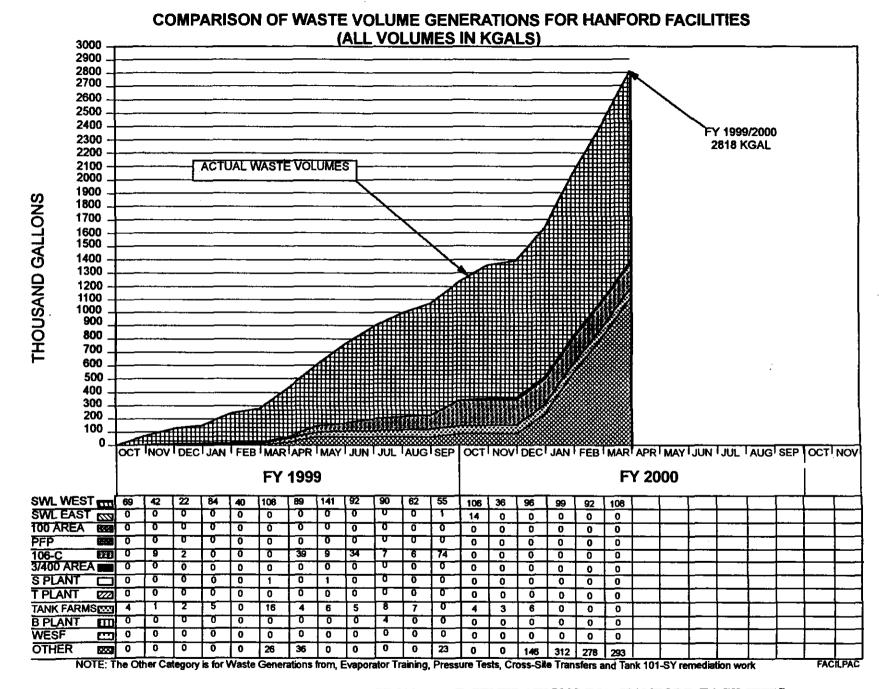


FIGURE F-1. COMPARISON OF WASTE VOLUME GENERATIONS FOR HANFORD FACILITIES (All volumes in Kgals)

APPENDIX G

MISCELLANEOUS UNDERGROUND STORAGE TANKS AND SPECIAL SURVEILLANCE FACILITIES

TABLE G-1. EAST AND WEST AREA MISCELLANEOUS UNDERGROUND STORAGE TANKS AND SPECIAL SURVEILLANCE FACILITIES

ACTIVE - still running transfers through the associated diversion boxes or pipeline encasements

March 31, 2000

FACILITY EAST AREA	LOCATION	PURPOSE (receives waste from:)	(Gailonsi	_MONITORED BY	<u>REMARKS</u>	
241-A-302-A	A Farm	A-151 DB	937	SACS/ENRAF/Manualty	Foamed over Catch Tank pump pit & div. box to prevent intrusion	
241-ER-311	B Plent	ER-151, ER-152 DB	8089	SACS/ENRAF/Manually	zo bigganir ilifilderon	
241-AX-152	AX Farm	AX-152 DB	0	SACS/MT	Pumped 11/98	
241-AZ-151	AZ Farm	AZ-702 condensate	2115	SACS/FIC/Manually	Volume changes daily - pumped to AZ-102 as needs	d
241-AZ-154	AZ Farm		25	SACS/MT		
244-8X-TK/SMP	BX Complex	DCRT - Receives from several farms	16259	SACS/MT	Using Manual Tape for tank/sump, pumped 10/16/9 to 66.0 in.	9
244-A-TK/SMP	A Complex	DCRT - Receives from several farms	2942	MCS/SACS/WTF	WTF- pumped 3/99 to AP-108	H
A-350	A Ferm	Collects drainage	275	MCS/SACS/WTF	WTF (uncorrected) pumped as needed	Ę
AR-204	AY Farm	Tanker trucks from various facilities	550	DIP TUBE	Alarms on SACS-pumped to AP-108, 7/99	Ė
A-417	A Ferm	· · · · · · · · · · · · · · · · · · ·	12344	SACSWIF	WTF (uncorrected) pumped 4/98	6
CR-003-TK/SUMP	C Farm	DCRT	3413	MT/ZIP CORD	Zip cord in sump O/S 3/11/96, water	100
	• • • • • • • • • • • • • • • • • • • •	20	•		intrusion, 1/98	HNF-EP-0182-144
WEST AREA					·	2
241-TX-302-C	TX Farm	TX-154 DB	162	SACS/ENRAF/Manually		
241-U-301-B	U Farm	U-151, U-152, U-153, U-252 DB	8060	SACS/ENRAF/Manually	Returned to service 12/30/93	
241-UX-302-A	U Plant	UX-154 DB	2565	SACS/ENRAF/Manually		
241-S-304	S Farm	S-151 DB	130	SACS/ENRAF/Manually	Replaced S-302-A, 10/91; ENRAF installed 7/98	
	- •			y	Sump not alarming.	
244-S-TK/SMP	S Farm	From original tanks to SY-102	10439	SACS/Manually	WTF (uncorrected)	
244-TX-TK/SMP	TX Farm	From original tanks to SY-102	16948	SACS/Menually	MT	
Vent Station Catch		Cross Country Transfer Line	351	SACS/Manually	MT	
				programmer (as a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second		

TABLE G-2. EAST AREA INACTIVE MISC. UNDERGROUND STORAGE TANKS AND SPECIAL SURV. FACILITIES
INACTIVE - no longer receiving waste transfers
March 31, 2000

EACHITY LOCATION DECEMEN WASTE FROM			MONITORE	5D	
<u>EACILITY</u>	<u>LOCATION</u>	RECEIVED WASTE FROM:	(Gallons)	BY	REMARKS
216-BY-201	BY Farm	TBP Waste Line	Unknown	NM	(216-BY)
241-A-302-B	A Ferm	A-152 DB	5720	SACS/MT	Isolated 1985, Project B-138
•		•			Interim Stabilized 1990, Rain intrusion
241-AX-151	N of PUREX	PUREX	Unknown	NM	isolated 1985
241-B-301-B	8 Farm	B-151, B-152, B-153, B-252 DB	22250	NM	Isolated 1985 (1)
241-B-302-B	B Farm	B-154 DB	4930	NM	Isolated 1985 (1)
241-BX-302-A	BX Farm	BR-152, BX-153, BXR-152, BYR-152 DB	840	NM	Isolated 1985 (1)
241-BX-302-B	BX Ferm	BX-154 DB	1040	NM	Isolated 1985 (1)
241-BX-302-C	BX Farm	BX-155 DB	870	NM	Isolated 1985 (1)
241-C-301-C	C Ferm	C-151, C-152, C-153, C-252 DB	10470	NM	Isolated 1985 (1)
241-CX-70	Hot Semi-	Transfer lines	Unknown	NM	Isolated, Decommission Project.
241-CX-72	Works	Transfer lines	650	NM	See Dwg H-2-95-501, 2/5/87
241-ER-311A	SW B Plant	ER-151 DB	Unknown	NM	laciated
244-AR VAULT	A Complex	Between farms & B-Plant	Unknown	NM	Not actively being used. Systems activated for final clean-out.
244-BXR-TK/SMP-001	BX Farm	Transfer lines	7200	NM	Interim Stabilization 1985 (1)
244-BXR-TK/SMP-002	BX Farm	Transfer lines	2180	NM	Interim Stabilization 1985 (1)
244-BXR-TK/SMP-003	BX Farm	Transfer lines	1810	NM	Interim Stabilization 1985 (1)
244-BXR-TK/SMP-011	BX Farm	Transfer lines	7100	NM	Interim Stabilization 1985 (1)
861-B-TANK	B Plant	Drainage from B-Plant	Unknown	NM	Interim Stabilization 1985 (1)

Total Etan Area nective facilities 19 1988 Bill

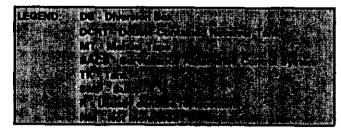


TABLE G-3. WEST AREA INACTIVE MISC. UNDERGROUND STORAGE TANKS AND SPECIAL SURV. FACILITIES INACTIVE - no longer receiving waste transfers March 31, 2000

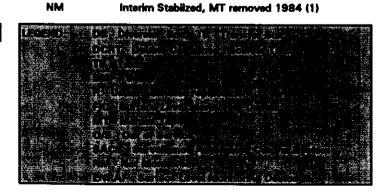
44/1		
mi	NITO	nr:,

				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
<u>FACILITY</u>	LOCATION	RECEIVED WASTE FROM:	(Gallons)	BY	REMARKS
216-TY-201	E. of TY Farm	Supernate from T-112	Unknown	NM	Isolated
231-W-151-001	N. of Z Plant	231-Z Floor drains	Unknown	NM	Inactive, last data 1974
231-W-151-002	N. of Z Plant	231-Z Floor drains	Unknown	NM	Inactive, last data 1974
240-S-302	S Farm	240-S-151 DB	8445	SACS/ENRAF	Assumed Leaker EPDA 85-04
241-S-302-A	S Farm	241-S-151 DB	0		Assumed Leaker TF-EFS-90-042
Partially fill	ed with grout 2/91,	determined still assumed leaker after lea	k test. Manual F	iC readings are un	
		d 2/23/99; intrusion readings discontinu			
241-S-302-B	S Farm	S Encasements	Unknown	NM	Isolated 1985 (1)
241-SX-302	SX Farm	SX-151 DB, 151 TB	Unknown	NM	Isolated 1987
241-SX-304	SX Farm	SX-152 Transfer Box, SX-151 DB	Unknown	NM	leciated 1985 (1)
241-T-301	T Farm	DB T-151, -151, -153, -252	Unknown	NM	Isolated 1985 (241-T-301B)
241-TX-302	TX Farm	TX-153 DB	Unknown	NM	Isolated 1985 (1)
241-TX-302-X-B	TX Farm	TX Encasements	Unknown	NM	Isolated 1985 (1)
241-TX-302-B	TX Farm	TX-155 DB	1600	SACS/MT	New MT installed 7/16/93
241-TX-302-B(R)	E. of TX Farm	TX-155 DB	Unknown	NM	Isolated
241-TY-302-A	TY Farm	TX-153 DB	Unknown	NM	Isolated 1985 (1)
241-TY-302-B	TY Farm	TY Encasements	Unknown	NM	Isolated 1985 (1)
241-Z-8	E. of Z Plant	Recupiex waste	Unknown	NM	Isolated, 1974, 1975
242-T-135	T Evaporator	T Evaporator	Unknown	NM	Isolated
242-TA-R1	T Evaporator	Z Plant waste	Unknown	NM	Isolated
243-S-TK-1	N. of S. Farm	Pers. Decon. Facility	Unknown	NM	Isolated
244-U-TK/SMP	U Farm	DCRT - Receives from several farms	Unknown	NM	Not yet in use
244-TXR VAULT	TX Ferm	Transfer lines	Unknown	NM	Interim Stabilized, MT removed 1984 (1)
244-TXR-TK/SMP-001	TX Farm	Transfer lines	Unknown	NM	Interim Stabilized, MT removed 1984 (1)
244-TXR-TK/SMP-002	TX Farm	Transfer lines	Unknown	NM	Interim Stabilized, MT removed 1984 (1)
244-TXR-TK/SMP-003	TX Farm	Transfer lines	Unknown	NM	Interim Stabilized, MT removed 1984 (1)
270-W	SE of U Plant	Condensate from U-221	Unknown	NM	Isolated 1970
361-T-TANK	T Plant	Drainage from T-Plant	Unknown	NM	Isolated 1985 (1)
		<u> </u>			· · ·

Unknown

NM

Drainage from U-Plant



361-U-TANK

U Plant

APPENDIX H LEAK VOLUME ESTIMATES

TABLE H-1. SINGLE-SHELL TANK LEAK VOLUME ESTIMATES (Sheet 1 of 5) March 31, 2000

		Declared rmed or	Volume		Associated KiloCuries		Interim Stabilized	Leak E	stimate
Tank Number	Assurt	ned Leaker (3)	Gallons (2)		137 cs (10))	Date (11)	Updated	Reference
241-A-103		1987	5500	(8)		8	06/88	1987	
241-A-104		1975	500 to 2500		0.8 to 1.8		09/78	1983	(a)(q)
241-A-105 (1	1)	1963	10000 to 277000	٠,	85 to 760	(D)	07/79	1991	(b)(c)
241-AX-102		1988	3000	(8)			09/88	1989	(h)
241-AX-104		1977					08/81	1989	(g)
241-8-101 241-8-103		1974 1978		(6) (6)			03/81 02/85	1989 1989	(g)
241-B-105		1978		:-:			12/84	1989	(g) (g)
241-B-107		1980	8000 10000	(8)			03/85	1986	(d)(f)
241-B-110 241-B-111	-	1981 1978	10000	(8)			03/85 06/85	1986 1989	(d) (g)
241-B-112		1978	2000				05/85	1989	(g)
241-B-201 241-B-203		1980 1983	1200 300	(8)			08/81 06/84	1984	(e)(f)
241-B-204		1984	400	(8) (8)			06/84	1986 1989	(d) (g)
241-BX-101		1972	-	(6)			09/78	1989	(g)
241-BX-102		1971 1974	70000 2500		50 0.5		11/78	1986	(d)
241-BX-108 241-BX-110		19/4 1976		(6)	U.5	(1)	07/79 08/85	1986 1989	(b) (g)
241-BX-111	19	984 (13)	••				03/95	1993	(g)
241-BY-103		1973	< 5000	(0)			11/97	1983	(a)
241-BY-105 241-BY-106		1984 1984		(6) (6)			N/A N/A	1989 1989	(g) (g)
241-BY-107		1984	15100	(8)			07/79	1989	(<u>o</u>)
241-BY-108		1972	< 5000	40000			02/85	1983	(a)
241-C-101 241-C-110		1980 1984	20000 2000	(8)(10))		11/83 05/95	1986 1989	(d) (g)
241-C-111		1968	5500	(8)			03/84	1989	(g)
241-C-201 (4		1988	550				03/82	1987	(i) (i) (i)
241-C-202 (4 241-C-203	·)	1988 1984	450 400	(8)			08/81 03/82	1987 1986	(I) (d)
241-C-204 (4	}	1988	350	,			09/82	1987	(0)
241-S-104		1968	24000	(8)		_	12/84	1989	(g)
241-SX-104 241-SX-107		1988 1964	6000 < 5000	(8)			N/A 10/79	1988 1983	(k)
	0(14)	1962	2400 to		17 to 140		08/79	1991	(a) (m)(q)(t)
·			35000		(m)(q)(t)		-		
241-SX-109 (5 241-SX-110	i){1 4 }	1965 1976	<10000 5500	(8)	<40	(n)(t)	05/81 08/79	1992 1989	(n) (t) (g)
	4)	1974	500 to 2000	17/	0.6 to 2.4	(I)(q)(t)	07/79	1986	(d)(q)(t)
	4)	1969	30000		40	(I)(t)	07/7 9	1986	(d)(t)
241-SX-113 241-SX-114		1962 1972	15000	(6)	8	(1)	11/78 07/79	1986 1989	(d) (g)
41-SX-115		1965	50000	10/	21	(o)	09/78	1992	(o)
241-T-101		1992		(8)	• •		04/93	1992	(p)
241-T-103 241-T-106		1974 1973	<1000 115000	(8) (8)	40	(1)	11/83 08/81	1989 1986	(g) (d)
41-T-107		1984		(6)	70	117	05/96	1989	
41-T-108		1974	<1000	(8)			11/78	1980	(g) (f)
41-T-109 41-T-111	1979.	1974 1994 (12)	<1000 <1000				12/84 02/95	1989 1994	(g) (f)(r)
41-TX-105	10.01	1977		(6)		 	04/83	1989	
41-TX-107 (5)	1984	2500				10/79	1986	(g) (d)
241-TX-110 241-TX-113		1977 1974		(6) (6)			04/83 04/83	1989 1989	(g) (g)
41-TX-114		1974	=	(6)			04/83	1989	(g)
41-TX-115		1977	-	(6)			09/83	1989	(g)
41-TX-116 41-TX-117		1977 1977		(6) (6)			04/83 03/83	1989 1989	(g) (g)
41-TY-101	"1	1973	<1000				04/83	1980	(f)
41-TY-103		1973	3000		0.7	(1)	02/83	1986	(d)
41-TY-104		1981 1960	1400 35000	(8)	4	(1)	11/83 02/83	1986 1986	(d) (d)
41-TY-105 41-TY-106		1959	20000		2	(i)	02/83 11/78	1986	(d)
41-U-101		1959	30000			(1)	09/79	1986	(d)
41-U-104		1961	55000	***	0.09	(i)	10/78	1986	(d)
41-U-110 41-U-112		1975 1980	5000 to 8100 8500	(8) (8)	0.05	(q)	12/84 09/79	1986 1986	(d)(q) (d)

N/A = not applicable (not yet interim stabilized)

TABLE H-1. SINGLE-SHELL LEAK VOLUME ESTIMATES (Sheet 2 of 5)

Footnotes:

- (1) Current estimates [see reference(b)] are that 610 Kgallons of cooling water was added to Tank 241-A-105 from November 1970 to December 1978 to aid in evaporative cooling. In accordance with <u>Dangerous Waste Regulations</u> [Washington Administrative Code 173-303-070 (2)(a)(ii), as amended, Washington State Department of Ecology, 1990, Olympia, Washington], any of this cooling water that has been added and subsequently leaked from the tank must be classified as a waste and should be included in the total leak volume. In August 1991, the leak volume estimate for this tank was updated in accordance with the WAC regulations. Previous estimates excluded the cooling water leaks from the total leak volume estimates because the waste content (concentration) in the cooling water which leaked should be much less than the original liquid waste in the tank (the sludge is relatively insoluble). The total leak volume estimate in this report (10 Kgallons to 277 Kgallons) is based on the following (see References):
 - 1. Reference (b) contains an estimate of 5 Kgallons to 15 Kgallons for the initial leak prior to August 1968.
 - 2. Reference (b) contains an estimate of 5 Kgallons to 30 Kgallons for the leak while the tank was being sluiced from August 1968 to November 1970.
 - 3. Reference (b) contains an estimate of 610 Kgallons of cooling water added to the tank from November 1970 to December 1978 but it was estimated that the leakage was small during this period. This reference contains the statement "Sufficient heat was generated in the tank to evaporate most, and perhaps nearly all, of this water." This results in a low estimate of zero gallons leakage from November 1970 to December 1978.
 - 4. Reference (c) contains an estimate the 378 to 410 Kgallons evaporated out of the tank from November 1970 to December 1978. Subtracting the minimum evaporation estimate from the cooling water added estimate provides a range from 0 to 232 Kgallons of cooling water leakage from November 1970 to December 1978.

	Low Estimate	High Estimate
Prior to August 1968	5,000	15,000
August 1968 to November 1970	5,000	30,000
November 1970 to December 1978	0	232,000
Totals	10,000	277,000

- These leak volume estimates do not include (with some exceptions), such things as: (a) cooling/raw water leaks, (b) intrusions (rain infiltration) and subsequent leaks, (c) leaks inside the tank farm but not through the tank liner (surface leaks, pipeline leaks, leaks at the joint for the overflow or fill lines, etc.), and (d) leaks from catch tanks, diversion boxes, encasements, etc.
- In many cases, a leak was suspected long before it was identified or confirmed. For example, reference (d) shows that Tank 241-U-104 was suspected of leaking in 1956. The leak was "confirmed" in 1961. This report lists the "assumed leaker" date of 1961. Using present standards, Tank 241-U-104 would have been declared an assumed leaker in 1956. In 1984, the criteria designations of "suspected leaker," "questionable integrity," "confirmed leaker," "declared leaker," "borderline" and "dormant," were merged into one category now reported as "assumed leaker." See reference (f) for explanation of when, how long, and how fast some of the tanks leaked. It is highly likely that there have been undetected leaks from single-shell tanks because of the nature of their design and instrumentation.

TABLE H-1. SINGLE-SHELL TANK LEAK VOLUME ESTIMATES (Sheet 3 of 5)

- (4) The leak volume estimate date for these tanks is before the "declared leaker" date because the tank was in a "suspected leaker" or "questionable integrity" status; however, a leak volume had been estimated prior to the tank being reclassified.
- (5) The increasing radiation levels in drywells and laterals associated with these three tanks could be indicating continuing leak or movement of existing radionuclides in the soil. There is no conclusive way to confirm these observations.
- (6) Methods were used to estimate the leak volumes from these 19 tanks based on the <u>assumption</u> that their cumulative leakage is approximately the same as for 18 of the 24 tanks identified in footnote (9). For more details see reference (g). The total leak volume estimate for these tanks is 150 Kgallons (rounded to the nearest Kgallons), for an average of approximately 8 Kgallons for each of 19 tanks.
- (7) The total has been rounded to the nearest 50 Kgallons. Upper bound values were used in many cases in developing these estimates. It is likely that some of these tanks have not actually leaked.
- (8) Leak volume estimate is based solely on observed liquid level decreases in these tanks. This is considered to be the most accurate method for estimating leak volumes.
- (9) The curie content shown is as listed in the reference document and is <u>not</u> decayed to a consistent date: therefore, a cumulative total is inappropriate.
- (10) Tank 241-C-101 experienced a liquid level decrease in the late 1960s and was taken out of service and pumped to a "minimum heel" in December 1969. In 1970, the tank was classified as a "questionable integrity" tank. Liquid level data show decreases in level throughout the 1970s and the tank was saltwell pumped during the 1970s, ending in April 1979. The tank was reclassified as a "confirmed leaker" in January 1980. See references (q) and (s); refer to reference (s) for information on the potential for there to have been leaks from other C-farm tanks (specifically, C-102, C-103, and C-109).
- (11) These dates indicate when the tanks were declared to be interim stabilized. In some cases, the official interim stabilization documents were issued at a later date. Also, in some cases, the field work associated with interim stabilization was completed at an earlier date.
- (12) Tank T-111 was declared an assumed re-leaker on February 28, 1994, due to a decreasing trend in surface level measurement. This tank was pumped, and interim stabilization completed on February 22, 1995.
- (13) Tank BX-111 was declared an assumed re-leaker in April 1993. Preparations for pumping were delayed, following an administrative hold placed on all tank farm operations in August 1993. Pumping resumed and the tank was declared interim stabilized on March 15, 1995.
- (14) The leak volume and curie release estimates on SX-108, SX-109, SX-111, and SX-112 have been reevaluated using a Historical Leak Model [see reference (u)]. In general, the model estimates are much higher
 than the values listed in the table, both for volume and curies released. The values listed in the table do not
 reflect this revised estimate because, "In particular, it is worth emphasizing that this report was never meant to
 be a definitive update for the leak baseline at the Hanford Site. It was rather meant to be an attempt to view the
 issue of leak inventories with a new and different methodology." (This quote is from the first page of the
 referenced report).

TABLE H-1. SINGLE-SHELL TANK LEAK VOLUME ESTIMATES (Sheet 4 of 5)

References:

- (a) Murthy, K.S., et al, June 1983, Assessment of Single-Shell Tank Residual Liquid Issues at Hanford Site, Washington, PNL-4688, Pacific Northwest Laboratory, Richland, Washington.
- (b) WHC, 1991a, Tank 241-A-105 Leak Assessment, WHC-MR-0264, Westinghouse Hanford Company, Richland, Washington.
- (c) WHC, 1991b, Tank 241-A-105 Evaporation Estimate 1970 Through 1978, WHC-EP-0410, Westinghouse Hanford Company, Richland, Washington.
- (d) Smith, D. A., January 1986, Single-Shell Tank Isolation Safety Analysis Report, SD-WM-SAR-006, Rev. 1, Westinghouse Hanford Company, Richland, Washington.
- (e) McCann, D. C., and T. S. Vail, September 1984, Waste Status Summary, RHO-RE-SR-14, Rockwell Hanford Operations, Richland, Washington.
- (f) Catlin, R. J., March 1980, Assessment of the Surveillance Program of the High-Level Waste Storage Tanks at Hanford, Hanford Engineering Development Laboratory, Richland, Washington.
- (g) Baumhardt, R. J., May 15, 1989, Letter to R. E. Gerton, U.S. Department of Energy-Richland Operations Office, Single-Shell Tank Leak Volumes, 8901832B R1, Westinghouse Hanford Company, Richland, Washington.
- (h) WHC, 1990a, Occurrence Report, Surface Level Measurement Decrease in Single-Shell Tank 241-AX-102, WHC-UO-89-023-TF-05, Westinghouse Hanford Company, Richland, Washington.
- (i) Groth, D. R., July 1, 1987, Internal Memorandum to R. J. Baumhardt, Liquid Level Losses in Tanks 241-C-201, -202 and -204, 65950-87-517, Westinghouse Hanford Company, Richland, Washington.
- (j) Groth, D. R. and G. C. Owens, May 15, 1987, Internal Memorandum to J. H. Roecker, *Tank 103-A Integrity Evaluation*, Westinghouse Hanford Company, Richland, Washington.
- (k) Dunford, G. L., July 8, 1988, Internal Memorandum to R. K. Welty, Engineering Investigation: Interstitial Liquid Level Decrease in Tank 241-SX-104, 13331-88-416, Westinghouse Hanford Company, Richland, Washington.
- (1) ERDA, 1975, Final Environmental Statement Waste Management Operations, Hanford Reservation, Richland, Washington, ERDA-1538, 2 vols., U.S. Energy Research and Development Administration, Washington, D.C.
- (m) WHC, 1992a, Tank 241-SX-108 Leak Assessment, WHC-MR-0300, Westinghouse Hanford Company, Richland, Washington.
- (n) WHC, 1992b, Tank 241-SX-109 Leak Assessment, WHC-MR-0301, Westinghouse Hanford Company, Richland, Washington.
- (o) WHC, 1992c, Tank 241-SX-115 Leak Assessment, WHC-MR-0302, Westinghouse Hanford Company, Richland, Washington.

TABLE H-1. SINGLE-SHELL TANK LEAK VOLUME ESTIMATES (Sheet 5 of 5)

- (p) WHC, 1992d, Occurrence Report, Apparent Decrease in Liquid Level in Single Shell Underground Storage Tank 241-T-101, Leak Suspected; Investigation Continuing, RL-WHC-TANKFARM-1992-0073, Westinghouse Hanford Company, Richland, Washington.
- (q) WHC,1990b, A History of the 200 Area Tank Farms, WHC-MR-0132, Westinghouse Hanford Company, Richland, Washington.
- (r) WHC, 1993a, Assessment of Unsaturated Zone Radionuclide Contamination Around Single-Shell Tanks 241-C-105 and 241-C-106, WHC-SD-EN-TI-185, REV OA, Westinghouse Hanford Company, Richland, Washington.
- (s) WHC, 1994, Occurrence Report, Apparent Liquid Level Decrease in Single Shell Underground Storage Tank 241-T-111; Declared an Assumed Re-Leaker, RL-WHC-TANKFARM-1994-0009, Westinghouse Hanford Company, Richland, Washington.
- (t) HNF, 1998, Agnew, S. F. and R. A. Corbin, August 1998, Analysis of SX Farm Leak Histories Historical Leak Model, (HLM), HNF-3233, Rev. 0, Los Alamos National Laboratory, Los Alamos, New Mexico

APPENDIX I

INTERIM STABILIZATION STATUS CONTROLLED, CLEAN, AND STABLE STATUS

TABLE I-1. SINGLE-SHELL TANKS INTERIM STABILIZATION STATUS (Sheet 1 of 3) March 31, 2000

149	Tanks	Total Single-Shell T	Total						interim stabilized Assumed Leaker	Not yet interim stabilized LKR = Assumed Loaker	N/A = Not ASMD LKR
28	ilized		Not Yet I		<u>.</u>	tiel liquid	ıble interetit	nove dreinu st pumped)	nped to rea	JET = Seltwell jet pumped to remove drainable interstitial liquid SN = Supernate pumped (Non-Jet pumped)	SET =
121		Interim Stabilized Tenke	Interim St					halliyad	, interim et	Administrativaly interim stabilizad	
				JET.	06/96	ASMD LKR	T-107	JET	06/84	SOUND	BY-112
ş	08/79	SOUND	U-204	Ą	08/81	ASMD LKR	T-106	ET	01/86	SOUND	BY-111
À	08/79	GINUOS	U-203	À	06/87	GNUOS	T-106	ğ	01/86	SOUND	BY-110
90 >	08/79	GINDOS	U-202	JET AR	11/99 (4)	ASMO LKR	1-103	<u> </u>	07/97	SOUND LKR	67-106 67-106
À	09/79	ASMD LKR	U-112	AR(2)(3)	03/81	GNUOB	T-102	ÆT	07/79	ASMD LKR	BY-107
	N/A	GNUOS	U-111	SNS	04/93	ASMO UKR	T-101		N/A	ASMD LKR	BY-106
Ā	12/84	ASMD LKR	U-110	AR	09/78	ASMD LKR	8X-115		N/A	ASMD LKR	BY-106
	N/A	SOUND	U-109	À₽	07/79	ASMO LKR	8X-114	JET	01/86	SOUND	BY-104
	N/A	SOUND	U-108	}	11/76	ASMO LKR	8X-113	, E	11/97	ASMD LKR	87-103 103
	2 3	SOUND	L-107	2 2	07/79	ASMO LKR	8X-112	in h	04/95	SOUND	RV-103
	N/A	SOUND	Ų-108	ş	08/79	ASMO LKR	8X-110	ET	09/90	BOUND	BX-112
₽	10/78	NATIONSY	U-104	AR	18/90	ASMI OMBY	8X-109	JET	03/96	ASMO LKR	EX-111
	N/A	BOUND	U-103	Ą	08/79	ASMD LKR	8X-108	8 <u>8</u>	08/86	ASMO LKR	BX-110
	N/A	SOUND	U-102	AR	10/79	ASMD LKR	8X-107	ÆT	09/90	SOUND	BX-109
Ž	09/79	ASMD LKR	U-101	: *	N/A	SOUND	8X-108	£	07/79	ASMD LKR	BX-108
≱	11/70	ASMD LKR	TY-106		Z)	SOUND	9X-106	ST.	0 9/9 0	SOUND	BX-107
<u> </u>	02/83	ASMO LKR	7.106		N S	ASMO LKR	8X-104	2 9	07/96	SOUND	8X-108
<u> </u>	11/93	ASMO IKS	7-103		2/2	SOLIND	8X-102	2 2	03/81	CMOOR	2 - 1 C
À	09/78	BOUND	17-102		N/A	SOUND	9X-101	AK(Z)	11/63	BOUND	BX-103
ÆT	04/83	ASMD LKR	TY-101		NA	SOUND	8-112	ÀЯ	11/78	ASMD LKR	BX-102
TET	04/83	SOUND	TX-118		N/A	BOUND	8-111	AR	09/78	ASMD LKR	BX-101
ሷ	03/83	ASMD LKR	TX-117	JET	01/97	SOUND	\$- 110	À	06/64	ASMD LKR	8-204
F	04/83	ASMO LKR	TX-116		N/A	GNUOS	S-100	À	08/84	ASMO LKR	B-203
in in	09/83	ASMO LKR	TX-116	.ET	12/96	SOUND	8-108	AR(2)	06/86	ASMU UKH	B-202
1	04/83	ASMO LKR	TX-113		N/A	BOUND	\$-18	\$ <u>2</u>	06/86	ASMO LKR	B-112
Ę	04/83	GNUOS	TX-112	JET .	09/88	BOUND	\$-106	8N)2)	06/95	ASMO LIKR	P-1-1
ET	04/83	DINDOS	111-XT	AR	12/84	ASMD LKR	9-104	AR(2)	12/84	ASMD LKR	B-110
S.	04/83	ASMD UKA	TX-110		NA	GNUOS	S-103	9	24/28	GNUOS	B-100
1	24/83		7 × ×			S S S S S S S S S S S S S S S S S S S	9 9 9	2 3		ASMO DAY	P 9
1	10/79	ASMD LKR	TX-107	Æ	09/62	ASMU LKR	C ZQ	2	03/96	SOUND	2 2
JET	06/83	BOUND	TX-106	à	03/82	ASMO LKR	C-203	¥	12/84	ASMD KR	- 106
JET	04/83	ASMO LKR	TX-106	AR	08/81	ASMO LKR	C-202	SN(2)	06/86	SOUND	8-104
8	09/79	BOUND	TX-104	Ā	03/82	ASMO LKR	C-201	8	02/96	ASMO IKR	B-103
<u>بر</u>	08/83	BOUND	TX-103	} !	06/90	BOUND	C-112	2 3	08/98	BOUND	B-102
1 3	02/04	SOUND	TX-101		03/84	ASMO LKR	6113	2 3	09/81	ASMO KR	AX-104
\$	00/81	SOUND	T-204	ĀR	11/63	SOUND	C-108	Ş	08/87	BOUND	AX-103
Ā	04/81	BOUND	T-203	AR	03/84	SOUND	C-108	82	88/60	ASMO LKR	AX-102
À	08/81	GNUOS	T-202	JET .	09/86	BOUND	C-107		N/N	SOUND	AX-101
AR (3)	04/81	SOUND	T-201		N/A	SOUND	C-106	ĄŖ	06/82	SOUND	A-106
AR(2)(3)	03/81	BOUND	T-112	≩	10/95	DUND	C-106	À	07/79	ASMO LKR	<u>}</u>
S	02/95	ASMO LKR	T-111	£	09/89	BOUND	C-104	ş	09/78	ASMO LKR	2
	01/00 (5)	SOUND	T-110		N/A	SOUND	C103	À !	06/08	ASMO LKR	A-103
2	12/84	7	T-109		09/95	Т	C-102	2	08/80	CINDOS	A-102
Method	Data LL	Agua Cars		Method	Data (1)	ASMO LKS		Mathod	Date (1)		Number
Stabil.	Stabil.		Tenk	Stebil	Stabil		Tenk	Stabil.	Stabil.	Tank	Tank
!	Interim)	l) :	Interim	i ·	1	!	Interim	I	l

TABLE I-1. SINGLE-SHELL TANKS INTERIM STABILIZATION STATUS (sheet 2 of 2)

Footnotes:

- (1) These dates indicate when the tanks were actually interim stabilized. In some cases, the official interim stabilization documents were issued at a later date.
- (2) Although tanks, BX-103, T-102 and T-112 met the interim stabilization administrative procedure at the time they were stabilized, they no longer meet the recently updated administrative procedure. The tanks were reevaluated in 1996 and memo 9654456, J. H. Wicks to Dr. J. K. McClusky, DOE-RL, dated September 1996, was issued which recommended that no further pumping be performed on these tanks, based on an economic evaluation.

Document RPP-5556, Rev. 0, "Updated Drainable Interstitial Liquid Volume Estimates for 119 Single-Shell Tanks Declared Stabilized," J. G. Field, February 7, 2000, states that five tanks no longer meet the stabilization criteria (BX-103, T-102, and T-112 exceed the supernate criteria, and BY-103 and C-102 exceed the DIL criteria).

An intrusion investigation was completed on tank B-202 in 1996 because of a detected increase in surface level. As a result of this investigation, it was determined that this tank no longer meets the recently updated administrative procedure for 200 series tanks.

- (3) Original Interim Stabilization data are missing on four tanks: B-201, T-102, T-112, and T-201.
- (4) Tank 241-T-104 was Interim Stabilized on November 19, 1999. In-tank video taken October 7, 1999, shows the surface is clearly sludge-type waste with no saltcake present. No visible water on surface. Waste surface appears level across tank with numerous cracks. There is a minimal collapsed area around the saltwell screen, with no visible bottom.
- (5) Tank 241-T-110 was Interim Stabilized on January 5, 2000, due to major equipment failure. An in-tank video taken October 7, 1999 (pumping was discontinued on August 12, 1999), showed the surface of this tank as smooth, brown-tinted sludge with visible cracks.

TABLE I-2. SINGLE-SHELL TANK INTERIM STABILIZATION MILESTONES March 31, 2000 (sheet 1 of 2)

New single-shell tank interim stabilization milestones were negotiated in 1999 and are identified in the "Consent Decree." The Consent Decree was approved on August 16, 1999.

CONSENT DECREE Attachments A-1 and A-2

Following is the schedule for pumping liquid waste from the remaining twenty-nine (29) single-shell tanks. This schedule is enforceable pursuant to the terms of the Decree except for the "Project Pumping Completion Dates" which are estimates only and not enforceable. (Note: Schedule does not include C-106)

Tank Designation		Pumping Initiated	Projected Pumping Completion Date	Interim Stabilization Date					
1.	T-104	Already initiated	May 30, 1999	November 19, 1999					
2.	T-110	Already initiated	May 30, 1999 May 30, 1999	-					
2 . 3.	SX-104	Already initiated	December 30, 2000	January 5, 2000					
4.	SX-104	Already initiated	December 30, 2000						
y 5.	S-102	Already initiated	March 30, 2001						
5.	S-106	Already initiated	March 30, 2001						
7	S-103	Already initiated	March 30, 2001						
3.	U-103*	September 26, 1999	April 15, 2002						
).	U-105*	December 10, 1999	April 15, 2002						
10.	U-102*	January 20, 2000	April 15, 2002						
1.	U-109*	March 11, 2000	April 15, 2002						
2.	A-101	October 30, 2000	September 30, 2003						
3.	AX-101	October 30, 2000	September 30, 2003						
4.	SX-105	March 15, 2001	February 28, 2003						
. 5.	SX-103	March 15, 2001	February 28, 2003						
6 .	SX-101	March 15, 2001	February 28, 2003						
7.	U-106*	March 15, 2001	February 28, 2003						
8.	BY-106	July 15, 2001	June 30, 2003	· · · · · · · · · · · · · · · · · · ·					
9.	BY-105	July 15, 2001	June 30, 2003						
20.	U-108	December 30, 2001	August 30, 2003						
21.	U-107	December 30, 2001	August 30, 2003	•					
2.	S-111	December 30, 2001	August 30, 2003						
23.	SX-102	December 30, 2001	August 30, 2003						
. 4.	U-111	November 30, 2002	September 30, 2003	,					
25 .	S-109	November 30, 2002	September 30, 2003						
26.	S-112	November 30, 2002	September 30, 2003	•					
27.	S-101	November 30, 2002	September 30, 2003						
28.	S-107	November 30, 2002	September 30, 2003						
<u> 1</u> 9.	C-103 No l	ater than December 30, 2000, DO	E will determine whether the or	ganic layer and numnahl					

C-103 No later than December 30, 2000, DOE will determine whether the organic layer and pumpable liquids will be pumped from Tank C-103 together or separately, and will establish a deadline for initiating pumping of this tank. The parties will incorporate the initiation deadline into this schedule as provided in Section VI of the Decree. CHG issued contract to subcontractor for scope and cost estimate. Draft report out for review; comments are being collected and incorporated.

^{*} Tanks containing organic complexants.

TABLE I-2. SINGLE-SHELL TANK INTERIM STABILIZATION MILESTONES (sheet 2 of 2)

Completion of Interim Stabilization. DOE will complete interim stabilization of all 29 single-shell tanks listed above by September 30, 2004.

Percentage of Pumpable Liquid Remaining to be Removed.

93% of Total Liquid	9/30/1999
38% of Organic Complexed Pumpable Liquids	9/30/2000
5% of Organic Complexed Pumpable Liquids	9/30/2001
18% of Total Liquid	9/30/2002
2% of Total Liquid	9/30/2003

The "percentage of pumpable liquid remaining to be removed" is calculated by dividing the volume of pumpable liquid remaining to be removed from tanks not yet interim stabilized by the sum of the total amount of liquid that has been pumped and the pumpable liquid that remains to be pumped from all tanks.

TABLE I-3. SINGLE-SHELL TANKS STABILIZATION STATUS SUMMARY March 31, 2000

Partial Interim Isolated (PI)	Intrusion Preventi	on Completed (IP)	Interim Stabilized (IS)							
EAST AREA	EAST AREA	WEST AREA	EAST AREA	WEST AREA						
A-101	A-103	S-104	A-102	S-104						
A-102	A-104	S-105	A-103	S-105						
A-10-0	A-105		A-104	8-106						
AX-101	A-106	SX-107	A-105	S-110						
, , , , ,		SX-108	A-106							
BY-102	AX-102	SX-109		SX-107						
BY-103	AX-103	SX-110	AX-102	SX-106						
BY-105	AX-104	SX-111	AX-103	8X-109						
BY-106		SX-112	AX-104	SX-110						
BY-109	B-FARM - 16 tanks	SX-113		SX-111						
	BX-FARM - 12 tanks	SX-114	B-FARM - 16 tanks	SX-112						
C-103		SX-115	BX-FARM - 12 tenics	SX-113						
C-105	BY-101			SX-114						
.C-106	BY-104	T-102	BY-101	SX-115						
	BY-107	T-103	BY-102							
	BY-108	T-105	BY-103	T-Farm - 16 tanks						
WEST AREA	BY-110	T-106	BY-104	TX-FARM - 18 tanks						
8-101	BY-111	T-108	BY-107	TY-FARM - 6 tanks						
S-102	BY-112	T-109	BY-108							
S-103		T-112	BY-109	U-101						
S-106	C-101	T-201	BY-110	U-104						
S-107	C-102	T-202	BY-111	U-110						
S-108	C-104	T-203	BY-112	U-112						
S-109	C-107	T-204		U-201						
S-110	C-108		C-101	U-202						
S-111	C-109	TX-FARM - 18 tanks	C-102	U-203						
S-112	C-110	TY-FARM - 6 tanks	C-104	U-204						
	C-111	11.464	C-105 C-107							
SX-101	C-112	U-101								
SX-102	C-201	U-104	C-108							
SX-103	C-202	U-112	C-10 0 C-110							
SX-104	C-203	U-102	C-111							
SX-105	C-204	U-202 ∐U-203	C-112							
SX-106	tentescappy and many the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state	ll .	C-201							
	·	U-204	C-201							
T-101										
T-104			C-204							
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